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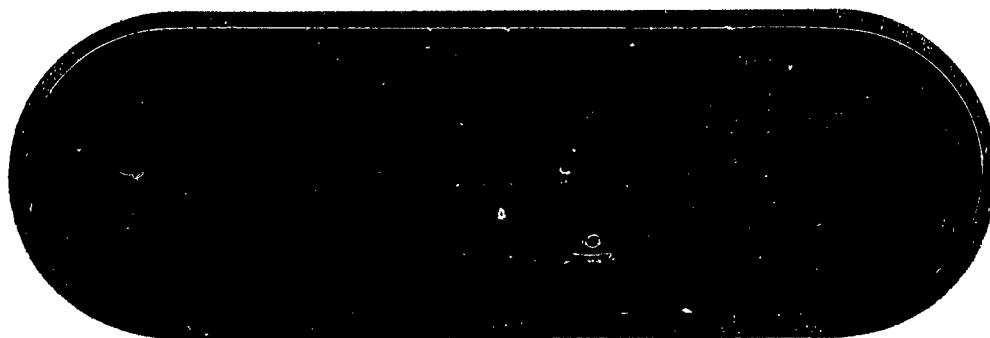
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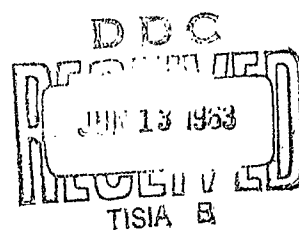
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SEATTLE, WASHINGTON

THE BOEING COMPANY

NUMBER T2-2548 Vol. 2

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Integration Test No. Two (EDIT-II-1) Report (II)

MODEL NO. WS-133A CONTRACT NO. AF 04(647)-289

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1.0.0 PURPOSE AND SCOPE

1.0.1 The purpose of this volume is to present the test report for Engineering Development Integration Test - II on Block Change -1 equipment (EDIT II-1). The EDIT II-1 test was conducted in accordance with the Test Procedures Document D2-13308 Volume 2 and the EDIT Program Plan, D2-13307.

1.1.0 EQUIPMENT IN TEST

Programmer Group, Figure A 1201

Programmer Group Test Set (Portable) Figure A 3092

Relay Assembly, Dummy Decoder, Figure A 3113

400 Cycle Power Control Box (25-34035)

EDIT Power Supply Cable (Power supply to 400 cycle control box).

2.0.0 SUMMARY

2.0.1 A self test of the Programmer Group (P/G) Test Set was completed with one minor discrepancy noted. In the voltage checks of paragraph 3.1.3.2 -(3) at Selector Switch positions 15 and 18, voltages were found to be slightly out of tolerance. The purpose of these voltage checks was to verify continuity. The tolerances given are being changed to allow for diode voltage drops which were larger than anticipated.

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Compatibility tests between the P/G and its Test Set resulted in No-Go's from approximately 15 cards. It was found that the phase supply voltage rise time of the P/G was operating near the lower limit of tolerance. The P/G model specifications state that rise time of the phase supply voltage should be measured in the range from 10 to 90 percent of the pulse magnitude of 12 volts. The P/G functional test was set up using this 10 to 90 percent range for phase supply voltage testing. When functionally tested, the P/G was found to be within tolerance. The P/G Test Set, however, was calibrated to measure rise time in the range from 3 to 10 volts (25 to 83.3 percent) of the pulse magnitude. In other words, the P/G Test Set measured the rise time of the phase supply voltage over a narrower range than was used in the P/G functional test. As a result, the phase supply voltage was slightly out of tolerance and the P/G Test Set initiated the No-Go's.

The P/G Test Set evaluators were recalibrated to measure the phase supply voltage rise time over a wider range. After recalibration the compatibility tests were repeated with acceptable results.

3.0.0

REPORT

3.0.1

The EDIT II-1 test was performed according to the Test Procedure Document D2-13308, Volume 2. These procedures and the recorded results are given in paragraph 3.1.0.0 through 3.3.8.3 which follow.

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.1.0.0</p> <p><u>P/G TEST SET SELF-TEST PROCEDURES</u></p> <p>3.1.1.0</p> <p>Test Set-Up</p> <p>3.1.1.1</p> <p>The P/G Test Set must be isolated from all electronic equipment with the exception of the Test Set Power case.</p> <p>3.1.1.2</p> <p>Connect the regulated power supply suitcase to the Test Set electronic component and control suitcase as shown in Figure 3.1.1.2-1.</p>			

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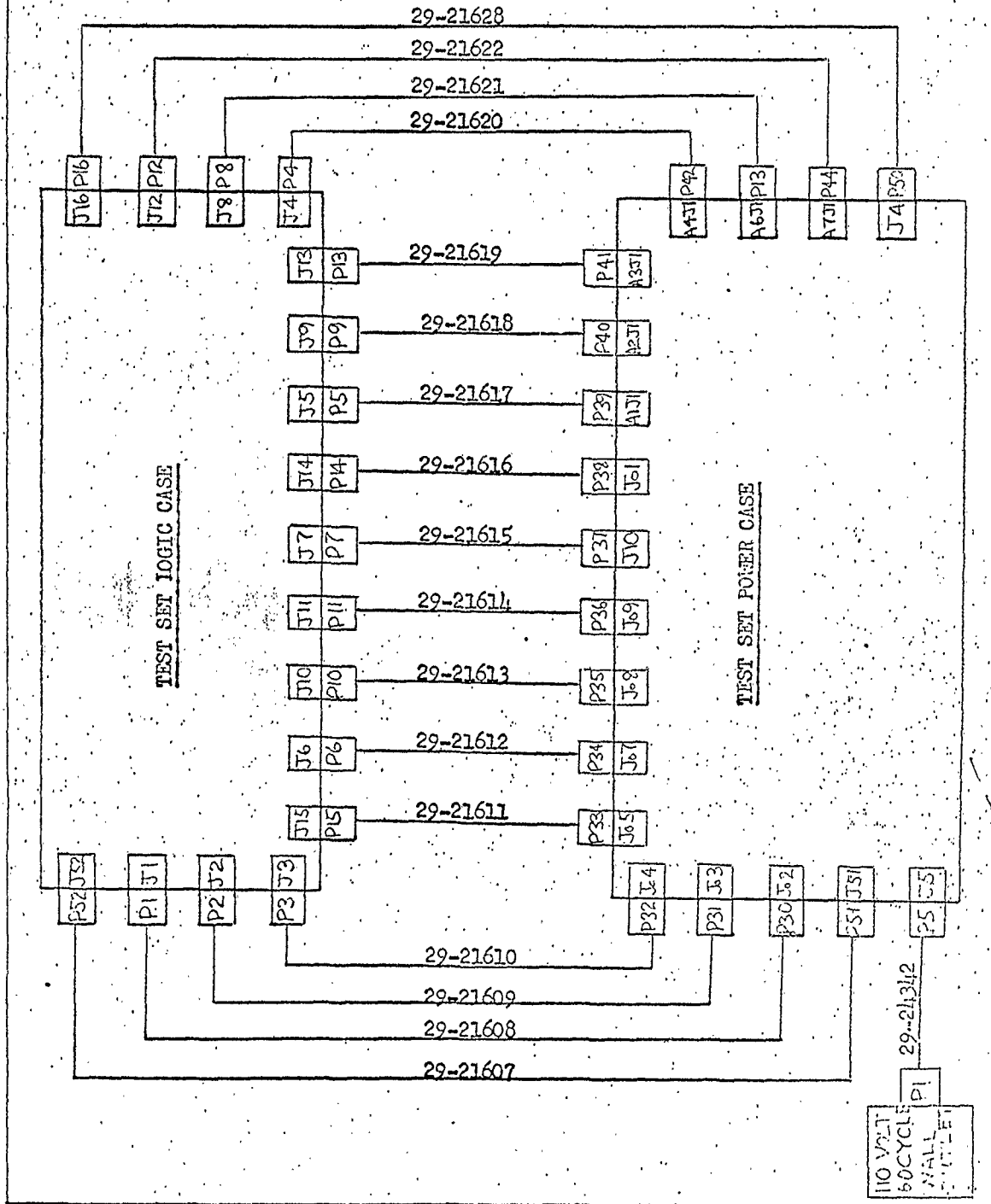
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Figure 3.1.1.2-1
Self-Test Connection



PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.1.1.3 Connect power cable to 120 volt, 60 cps outlet.			
3.1.1.4 Press the TEST SET POWER ON switch on the Test Set. <u>NOTE:</u> The Test Set must be ON for 30 seconds before running any card tests.	TEST SET POWER ON lamp turns ON. The AFS ALARM and W/H ALARM lamps turn ON. The WARNING lamp starts flashing at 4 cps. These conditions exist until the 13th card.	OK OK OK	
3.1.1.5 Press the P/G POWER ON switch.	P/G POWER ON lamp ON.	OK	

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.1.2.0 Card Tests</p> <p>3.1.2.1 Insert selected punched cards in the Test Set CARD READER face up and beveled corner out. Push CARD READER HANDLE fully down to engage electrical contacts.</p> <p>3.1.2.2 Push START TEST button on the Test Set. NOTE: The START TEST switch must be held down until the START TEST lamp turns ON.</p> <p>3.1.2.3 When GO lamp illuminates and the TEST IN PROCESS lamp goes OFF, lift the card reader handle and remove card.</p>	<p>START TEST lamp ON.</p> <p>TEST IN PROCESS lamp OFF. GO or NO-GO lamp ON.</p>	<p>OK</p> <p>OK</p> <p>OK</p>	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.1.2.3. (Continued)</p> <p><u>NOTE:</u> Additional instructions, when needed, are given for each card test.</p> <p>3.1.2.4</p> <p>Record each test result in appropriate column allocated for each card or voltage test in this document.</p> <p>3.1.2.5</p> <p>Repeat paragraphs 3.1.2.1 thru 3.1.2.4 for each succeeding test.</p> <p>3.1.3.0</p> <p>Self-Test</p> <p>3.1.3.1</p> <p>Select punched cards (25-30947-125 thru 25-30947-147) for self-test of the Test Set.</p>			

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.1.3.2</p> <p>Follow paragraphs 3.1.2.1 thru 3.1.2.5 starting with card 25-30947-125.</p> <p>(1) Card 25-30947-125. After the GO lamp is ON, set the Range Switch at 3, and rotate the Selector Switch successively through the positions indicated in Table 3.1.3.2-1. Read the voltmeter at each position of the Selector Switch.</p> <p>(2) Card 25-30947-126. Follow same procedure as number 1 above.</p>	<p>GO lamp ON.</p> <p>The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch.</p> <p>NO-GO lamp ON.</p> <p>The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch except at position 14 which reads 0 ± 0.5 volts.</p>	<p>OK</p> <p>See Table 3.1.3.2-1</p> <p>OK</p> <p>See Table 3.1.3.2-1</p>	

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Table 3.1.3.2-1

Voltmeter Switching Requirements Self-Test Procedure

Selector Switch Position	Card-125 Acpt. Volts	Card-125 Volts Read	Card-126 Acpt. Volts	Card-126 Volts Read	Card-127 Acpt. Volts	Card-127 Volts Read	Card-128 Acpt. Volts	Card-128 Volts Read
1	10 ± 0.5 V	10.0 V	10 ± 0.5 V	10.0 V	10 ± 0.5 V	10.0 V		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12	10 ± 0.5 V	10.0 V	10 ± 0.5 V	10.0 V	10 ± 0.5 V	10.0 V	10 ± 0.5 V	10.0 V
13			10 ± 0.5 V	10.0 V	10 ± 0.5 V	10.0 V		
14	10 ± 0.5 V	10.0 V	10 ± 0.5 V	10.0 V	10 ± 0.5 V	-9.3 V		
15			10 ± 0.5 V	10.0 V	10 ± 0.5 V			
16								
17	10 ± 0.5 V	10.0 V	10 ± 0.5 V	10.0 V	10 ± 0.5 V	-9.3 V		
18	10 ± 0.5 V	10.0 V			10 ± 0.5 V			

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
(3) Card 25-30947-127. Follow same procedure as number 1 above.	GO lamp ON. The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch.	OK See Table 3.1.3.2-1.	At Selector switch position #15 & 18, 9.3 V were indicated on the voltmeter. The tolerances of voltages given will be changed since the purpose of these voltage checks is to verify continuity. The voltage drops across the diodes were of greater magnitude than originally anticipated.
(4) Card 25-30947-128. Follow same procedure as number 1 above.	NO-GO lamp ON. The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch.	OK See Table 3.1.3.2-1.	
(5) Card 25-30947-129. NOTE: This test requires 66 seconds for completion.	GO lamp ON.	OK	This card resulted in a GO but the test did not require 66 seconds. This was due to a mispunched card which checked the timer in the P/G. Using a new card, the test was repeated with acceptable results.

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
(6) Card 25-30947-130	GO lamp ON.	OK	
(7) Card 25-30947-131	NO-GO lamp ON.	OK	
(8) Card 25-30947-132	GO lamp ON.	OK	
(9) Card 25-30947-133	GO lamp ON.	OK	
(10) Card 25-30947-134	NO-GO lamp ON.	OK	
(11) Card 25-30947-135	GO lamp ON. The stepping switch will scan 4 times during test with an audible pause between scans.	OK	
Repeat test but this time push the P/G POWER OFF switch during first scan of stepping switch.	NO-GO lamp ON.	OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
(12) Card 25-30947-136	GO lamp ON.	OK	
(13) Card 25-30947-137. Repeat test, but this time push the P/G POWER OFF switch during test.	GO lamp ON. NO-GO lamp ON. The W/H ALARM, AFS ALARM and WARNING lamps will turn OFF when the P/G POWER OFF switch is depressed. The lamps will turn back ON when switch is released.	OK OK OK	
(14) Card 25-30947-138.	GO lamp ON. The AFS ALARM lamp turns OFF during test.	OK OK OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
(15) Card 25-30947-159. Initiate test and observe the START TEST, AFS SAFETY, W/H ALARM, and WARNING lamps.	<p>The following events take place:</p> <p>A. Shortly after pressing the START TEST switch:</p> <p>(1) The AFS ALARM lamp turns OFF momentarily.</p> <p>(2) The START TEST lamp turns ON.</p> <p>B. After the START TEST lamp turns ON:</p> <p>(1) The W/H ALARM turns OFF.</p> <p>(2) The WARNING lamp starts flashing at 25% duty cycle.</p>	<p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p>	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
(15) (Continued)	<p>C. When the W/H ALARM turns OFF, the AFS ALARM lamp starts flashing at 8 cps.</p> <p>D. When the stepping switch starts to scan, the W/H ALARM lamp turns ON, the AFS ALARM lamp goes back to steady ON state, and the WARNING lamp resumes flashing at 4 cps.</p> <p>GO lamp ON.</p>	OK	
(16) Card 25-30947-1.40	NO-GO lamp ON.	OK	
(17) Card 25-30947-1.1	GO lamp ON.	OK	

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
(18) Card 25-30947-142	GO lamp ON.	OK	
(19) Card 25-30947-143	GO lamp ON.	OK	
(20) Card 25-30947-144	GO lamp ON The W/H ALARM, AFS ALARM and WARNING lamps will turn OFF when the card reader handle is opera- ted UP. The START TEST lamp turns ON. When the stepping switch starts its scan, the lamps will turn back ON. AFS alarm OFF. GO lamp ON. GO lamp ON. GO lamp ON.	OK OK OK OK OK OK OK OK OK	
(21) Card 25-30947-145			
(22) Card 25-30947-146			
(23) Card 25-30947-147			

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.0.0.</p> <p><u>COMPATIBILITY TEST OF P/G WITH THE</u></p> <p><u>P/G TEST SET.</u></p> <p>3.2.1.0</p> <p>Test Set-Up.</p> <p>3.2.1.1</p> <p>The P/G must be isolated from all electronic equipment with the exception of its SOURCE POWER SUPPLY and associated P/G Test Set equipment.</p> <p>3.2.1.2</p> <p>Apply cooling air to P/G (ref. 2.1.2)</p> <p>3.2.1.3</p> <p>Make the cable connections shown in Figure 3.2.1.3-1.</p>			

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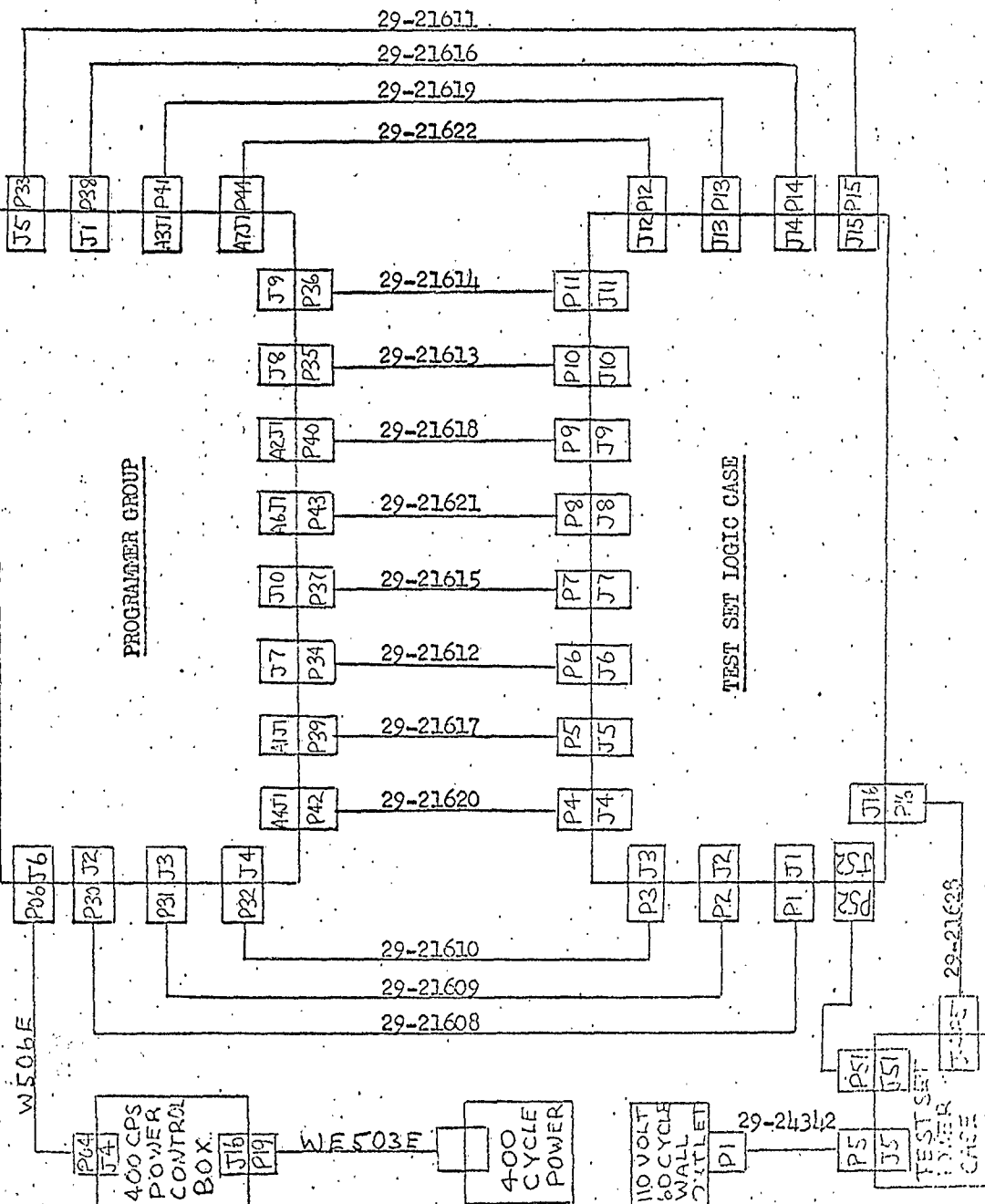
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P/G Test Connection



PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.1.4 The Dummy Decoder is inserted into Launch Drawer No. 1 of the P/G.</p>			
<p>3.2.1.5 Press the TEST SET POWER ON switch. <u>NOTE:</u> The MONITOR POWER ON lamp on the P/G will have been ON continuously during preceding tests. It will remain ON until the main LF circuit breaker is tripped OFF to replace a faulty P/G drawer.</p>	<p>TEST SET POWER ON lamp ON.</p>	<p>OK</p>	
<p>3.2.1.6 Press the P/G POWER ON switch.</p>	<p>P/G POWER ON lamps ON.</p>	<p>OK</p>	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.1.4</p> <p>The Dummy Decoder is inserted into Launch Drawer No. 1 of the P/G.</p>			
<p>3.2.1.5</p> <p>Press the TEST SET POWER ON switch.</p> <p><u>NOTE:</u> The IGNITOR POWER ON lamp on the P/G will have been ON continuously during preceding tests. It will remain ON until the main IF circuit breaker is tripped OFF to replace a faulty P/G drawer.</p>	<p>TEST SET POWER ON lamp ON.</p>	OK	
<p>3.2.1.6</p> <p>Press the P/G POWER ON switch.</p>	<p>P/G POWER ON lamps ON.</p>	OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.2.0 Voltage Level Check</p> <p>3.2.2.1 P/G. Monitor Power ON Only</p> <p>3.2.2.2 Measure the voltages at the Range and Selector positions on the Test Set as specified in Table 3.2.2.2-1. Record the results of each test on specified Table.</p> <p>3.2.2.3 P/G Monitor and Test Power ON</p> <p>3.2.2.4 Measure the voltages at the Range and Selector positions on the Test Set as specified in Table 3.2.2.4-1. Record</p>	<p>See Table 3.2.2.2-1.</p> <p>See Table 3.2.2.4-1.</p>		

SELECTOR	RANGE											
	+20 Volts DC						-20 V DC			+40 V DC		
	1	2	3	4	5	6	1	2	3	4	5	6
1	Accept Volts	Accept Volts	Accept Volts	Accept Volts	Accept Volts	Accept Volts	Accept Volts	Accept Volts	Accept Volts	Accept Volts	Accept Volts	Accept Volts
2	Volts Read	Volts Read	Volts Read	Volts Read	Volts Read	Volts Read	Volts Read	Volts Read	Volts Read	Volts Read	Volts Read	Volts Read
3	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2
4	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5
5	10 ± 0.5	10.3	10.3	10.3	10.3	10.3	10 ± 0.5	10.3	10.3	10.3	10.3	10.3
6	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5
7	10 ± 0.5	10.3	10.3	10.3	10.3	10.3	10 ± 0.5	10.3	10.3	10.3	10.3	10.3
8	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5
9	10 ± 0.5	10.3	10.3	10.3	10.3	10.3	10 ± 0.5	10.3	10.3	10.3	10.3	10.3
10	10 ± 0.5	10.3	10.3	10.3	10.3	10.3	10 ± 0.5	10.3	10.3	10.3	10.3	10.3
11	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5	0 to 0.5
12	11.5 ± 0.5	11.4	11.4	11.4	11.4	11.4	11.5 ± 0.5	11.4	11.4	11.4	11.4	11.4
13	17 ± 2	17.5	17.5	17.5	17.5	17.5	17 ± 2	17.5	17.5	17.5	17.5	17.5
14	17 ± 2	17.5	17.5	17.5	17.5	17.5	17 ± 2	17.5	17.5	17.5	17.5	17.5
15	17 ± 2	17.5	17.5	17.5	17.5	17.5	17 ± 2	17.5	17.5	17.5	17.5	17.5
16	17 ± 2	17.5	17.5	17.5	17.5	17.5	17 ± 2	17.5	17.5	17.5	17.5	17.5
17												
18												

TABLE 3.2.2.2-1

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
(1) 25-31059-106 <u>NOTE:</u> This Test shall be performed prior to any other test.	GO lamp ON	OK	
(2) 25-31059-107		OK	
(3) 25-31059-108		OK	
(4) 25-31059-109		OK	
(5) 25-31059-110 3.2.4.0 End to End Test 3.2.4.1 Select punched cards (25-26642-165 thru 25-26642-232) for End-to-End Test.	GO lamp ON	OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.2.4 (Continued) the results of each test on specified table.</p> <p>3.2.3.0 Phase Supply Voltage Test</p> <p>3.2.3.1 Select punched cards (25-31059-106 thru 25-31059-110) to check the phase supply voltage in each of the five drawers.</p> <p>3.2.3.2 Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume starting with card 25-31059-106.</p> <p><u>NOTE:</u> For more detail on function of these cards, see D2-12636 Volume I.</p>			

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.4.2</p> <p>Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume and additional instructions stated in the procedure for each card, starting with card 25-26642-165.</p> <p><u>NOTE:</u> For more detail on function of these cards, see D2-12636 Volume II.</p> <p>(1) 25-26642-165</p> <p>(2) 25-26642-166</p> <p>(3) -168</p> <p>(4) -169</p> <p>(5) -170</p> <p>(6) -171</p> <p>(7) -172</p> <p>(8) -173</p> <p>(9) -174</p> <p>(10) 25-26642-175</p>	<p>GO lamp ON</p> <p>GO lamp ON.</p>	<p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p>	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.4.2 (Continued) (11) 25-26642-176 (12) -177 (13) -178 (14) -179 OMIT (15) -180 (16) -181 (17) -182 (18) -183 (19) -184 (20) -185 (21) -186 OMIT (22) -187 (23) -188 (24) -1899 (25) -190 (26) -191 (27) 25-26642-192 OMIT	GO lamp ON →	OK →	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.4.2 (Continued) (28) 25-26642-193 (29) ↑ (30) -194 (31) -195 (32) -196 (33) -197 (34) -198 (35) -199 (36) -200 (37) -201 (38) -202 OHT (39) -203 OHT (40) -204 (41) -205 (42) -206 (43) -207 (44) 25-26642-209 ↓	GO lamp ON A _____ V GO lamp ON	OK ↑ _____ ↓ OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
(45) 25-26642-210 (46) -211 (47) -212 OMIT (48) -213 OMIT (49) -214 (50) -215 (51) 25-26642 -216	GO lamp ON  GO lamp ON	OK  OK	
3.2.4.3 Card 25-26642-216			
3.2.4.4 Select punched card 25-26642-216.			
3.2.4.5 Follow paragraph 3.2.1.			

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.4.6 Wait 10 ± 2 minutes and then push START TEST button.	NO-GO lamp ON.	OK	
3.2.4.7 Open and close the card reader and wait another 10 ± 2 minutes; then follow paragraphs 3.1.2.1 thru 3.1.2.4.	GO lamp ON.	OK	
3.2.4.8 Card 25-26642-217			
3.2.4.9 Select punched card 25-26642-217.			
3.2.4.10 Follow paragraph 3.1.2.1.			

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.4.11</p> <p>Depress the SHUT DOWN LAUNCH FACILITY button on the P/g.</p> <p><u>CONTINUE TO COLD BUTTON DOWN THROUGHOUT</u></p> <p><u>THIS CARD TEST.</u> Release only after GO or NO-GO is received.</p>			
<p>3.2.4.12</p> <p>Follow paragraphs 3.1.2.2 thru 3.1.2.4. GO lamp ON.</p>		OK	
<p>3.2.4.13</p> <p>Card 25-26612-218.</p>			
<p>3.2.4.14</p> <p>Select punched card 25-26612-218.</p>			
<p>3.2.4.15</p> <p>Follow paragraph 3.2.1.</p>			

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.4.16</p> <p>Depress the P/G POWER OFF switch on the EGS-74 to initiate shut down.</p> <p><u>KEEP DEPRESSED FOR DURATION OF TEST.</u></p>			
<p>3.2.4.17</p> <p>Follow paragraphs 3.1.2.1 thru 3.1.2.4.</p> <p>NOTE: To start up after the foregoing test, depress P/G POWER ON switch.</p>	GO lamp ON.	OK	
<p>3.2.4.18</p> <p>Select punched cards (25-26642-219 thru 25-26642-232).</p>			
<p>3.2.4.19</p> <p>Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume starting with card 25-26642-219.</p>			

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>(1) 25-26642-219</p> <p>(2) -220</p> <p>(3) -221</p> <p>(4) -222</p> <p>(5) -223</p> <p>(6) -224</p> <p>(7) -225</p> <p>(8) -226</p> <p>(9) -227</p> <p>(10) 25-26642-228</p> <p>(11) -229</p> <p>(12) -230</p> <p>(13) -231</p> <p>(14) 25-26642-232</p> <p>3.2.5.0</p> <p>Timer Sequential Drawer Test</p> <p>3.2.5.1</p> <p>Select punched cards (25-26643-120 thru 25-26643-138)</p>	<p>GO lamp ON</p> <p>OK</p> <p>GO lamp ON</p> <p>OK</p>	<p>OK</p> <p>OK</p>	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.5.2</p> <p>Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume starting with card 25-26643-120.</p> <p><u>NOTE:</u> For more detail on function of these cards, see D2-12636, Volume III.</p> <p>(1) 25-26643-120 (2) -121 (3) -122 OMIT (4) -123 (5) -124 (6) -125 (7) -126 (8) -127 (9) -128 (10) -129 (11) 25-26643-130</p>	<p>GO lamp ON.</p> <p>OK</p>	<p>OK</p>	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.5.2 (Continued) (12) 25-26643-131 (13) -132 (14) -133 (15) -134 (16) -135 (17) -136 (18) -137 (19) 25-26643-138	GO lamp ON. OK	OK	
3.2.6.0 Programmer Launch Sequence Drawer Test 3.2.6.2 Select punched cards (25-26644-128 thru 25-26644-155) 3.2.6.2 Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume starting with 25-26644-128.	GO lamp ON.	OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.6.2 (Continued)</p> <p>NOTE: For more detail on function of these cards, see D2-12636 Vol. IV.</p> <p>(1) 25-26644-128</p> <p>(2) -129</p> <p>(3) -130</p> <p>(4) -131</p> <p>(5) -132</p> <p>(6) -133</p> <p>(7) -134</p> <p>(8) -135</p> <p>(9) -136</p> <p>(10) -137</p> <p>(11) -138</p> <p>(12) -139</p> <p>(13) -140</p> <p>(14) 25-26644-141</p>	<p>GO Lamp ON.</p> <p>OK</p> <p>GO lamp ON.</p> <p>OK</p>		

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.6.2 (Continued) (15) 25-26644-142 (16) -143 (17) -144 (18) -145 (19) -146 (20) -147 (21) -148 (22) -149 (23) -150 (24) -151 (25) -152 (26) -153 (27) -154 (28) 25-26644-155	<p>GO lamp ON.</p> <p>GO lamp ON.</p>	<p>OK</p> <p>OK</p>	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.7.0 Programmer Calibrator Test Drawer Test</p> <p>3.2.7.1 Select punched cards (25-26645-128 thru 25-26645-157)</p> <p>3.2.8.2 Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume, starting with card 25-26645-128.</p> <p>NOTE: For more detail on function of these cards, see D2-12636, Volume V.</p> <p>(1) 25-26645-128 (2) -129 (3) -130 (4) -131 (5) -132 (6) 25-26645-133</p>	<p>GO lamp ON</p> <p>GO lamp ON</p>	<p>OK</p> <p>OK</p>	

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.7.2 (Continued) (7) 25-26645-134 (8) -135 (9) -136 (10) -137 (11) -138 (12) -139 (13) -140 (14) -141 (15) -142 (16) -143 (17) -144 (18) -145 (19) -146 (20) -147 (21) -148 (22) 25-26645-149	GO lamp ON. ↗ ↘ GO lamp ON.	OK ↗ ↘ OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.7.2 (Continued) (23) 25-26645-150 (24) -151 (25) -152 (26) -153 (27) -154 (28) -155 (29) -156 (30) 25-26645-157 3.2.8.0 Monitor Launcher Missile Status Drawer Test	GO lamp ON. OK	OK	
3.2.8.1 Select punched cards (25-26646-137 thru 25-26646-172) 3.2.8.2 Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume, starting with card 25-26646-137.	GO lamp ON..	OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.8.2 (Continued) (1) 25-26646-137 (2) -138 OMIT (3) -139 (4) -140 (5) -141 (6) -142 (7) -143 (8) -144 (9) -145 (10) -146 (11) -147 OMIT (12) -148 (13) -149 OMIT (14) -150 (15) -151 OMIT (16) -152 OMIT (17) 25-26646-153	GO lamp ON A V GO lamp ON	OK A V OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.8.2 (Continued)			
(18) 25-26646-154	GO lamp ON.	OK	
(19) -155			
(20) -156			
(21) -157			
(22) -158			
(23) -159			
(24) -160			
(25) -161 OMIT			
(26) -162			
(27) -163			
(28) -164			
(29) -165			
(30) -166			
(31) -167			
(32) -168			
(33) -169			
(34) 25-26646-170	GO lamp ON	OK	

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.8.2 (Continued)			
(35) 25-26646-170	GO lamp ON.	OK	
(36) 25-26646-171	GO lamp ON.	OK	
(37) 25-26646-172	GO lamp ON.	OK	
3.3.8.3			
Test Complete.			

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4.0.0

CONCLUSION

4.0.1

The EDIT II-1 tests demonstrated that the Programmer Group and Programmer Group Test Set are physically, functionally, and electrically compatible. The problems noted in the summary of this report, while not serious, have been corrected.

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THE BOEING COMPANY

NUMBER T2-2548 MODEL NO. WS-133A

TITLE Engineering Development Integration Test No. Two

(EDIT II-1) - Test Log

2-5142

SECTION TITLE PAGE U3 4288 0000 REV. 2/61

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5/14/62

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5/14/62

(DATE)

AF 04(748)-289

CONTRACT NO.

5-78105-8640-68956

CHARGE NUMBER

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NO. T2-2548
PAGE 1 OF 25

1.0.0

MANUFACTURING & INSPECTION RECORD - TEST LOG

1.0.1

The M&IR Test Log shows the test results recorded during EDIT II-1. The compatibility of the P/G and P/G Test Set was satisfactorily demonstrated on 30 March 1962, with representatives of BSD/STL attending the demonstration. Boeing Quality Control verification was not required for the Test Log.

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PAGE 2

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TEST NUMBER		UNIT SERIAL NUMBER		TEST PLANNING		MANUFACTURING AND INSPECTION RECORD				PAGE	
EDIT II-1		P160000001		BY DATE		TEST LOG				OF	
D2-133C8 Vol. 2		P16 Test Set 002				PLANNING BUDGET VERIFICATION				2	
MODEL NO.		TEST ITEM		WORK ORDER NO.		AUTHORITY		PAGE SER. NO.		DATE	
WS 133A						78105 EWA 08-956				3/15/6	
TIME	CONDITION NO.	WORK ITEM NO.	TEST ITEM	SER. NO.	REF. E. R. SER. NO.	SHOP	INSP.	ENCR.			
2830			Start-up at 0681.0 Hrs. on elapsed time meter.					DM			
2845			Re-ran all No-Go cards to verify fault					DM			
			Note: Checked ϕ_1 and ϕ_2 with scope. Both P16 phase supply voltage rise times were close to lower limit (5u-sec)								
3945			Re-ran cards indicating No-Gos with P16 Test Set rise time evaluator inhibited.					DM			
	Vol 2	2	Note: Cards-106 and -107, phase supply; -218 End-to-End; -155 Launch Drawer #2; and -152, -154, -156 Sequencer Drawer resulted in No-Gos.								
	Sec 2	2									
	Page 10	10									
JOB NUMBER			PART NUMBER			NOMENCLATURE			LEAD INSP. STAMP		
61347			25-22036-70			Programmer Group (P16)			INSP. REG. DATE		
U3 4400 5605 ORIG. 6/60			25-20278-2			P16 Test Set			CUS.		

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TEL. NUMBER		UNIT SERIAL NUMBER		TEST PLANNING		MANUFACTURING AND INSPECTION RECORD				PAGE	
EDIT II-1		P/G-0000001		BY DATE		TEST LOG				OF	
D2-13308 Vol. 2		P/G-Test Set		WORK ORDER NO.		AUTHORITY				PAGE SER. NO.	
WS 133A		002		78105		EWA 08-956				DATE	
TEST ITEM		SER. NO.		WORK ORDER NO.		PLANNING BUDGET				DATE	
CONDITION NO.		WORK ITEM NO.				VERIFICATION				3-19-6	
TIME						REF. E. R.				OPERATION COMPLETION	
						SER. NO.				SHOP INSP. ENGR.	
1130				3.2.5.0A Timer Sequential Drawer Test				DM			
				page 6 (Completed) OK							
				Note: Formerly Launch Drawer							
				No. 1 Test.							
				Note: Cards -120, -121, -126, -127,							
				-128 and -137 resulted in							
				G.O's. Trouble was of							
				voltage tests which have							
				been recalibrated. page 10							
1145				3.2.6.0A Programmer Launch Sequence				DM			
				Drawer Test page 6 (Completed)							
				OK.							
				Note: Formerly Launch							
				Drawer No. 2 Test.							
				Note: Card -155 was re-							
				programmed at result							
				in a G.O.							
PAGE		JOB NUMBER		PART NUMBER		NOMENCLATURE		LEAD INSP.		INSP. REG.	
OF		61347		25-22036-70		Programmer		STAMP		STAMP	
		U3 4400 5605 ORIG. 5/60		25-20278-2		P/G Test Set					

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MANUFACTURING AND INSPECTION RECORD										PAGE 1 OF 2	
TEST PLAN		UNIT SERIAL NUMBER		TEST LOG		PLANNING BUDGET VERIFICATION		DATE			
BY	DATE	P/G 0000001	P/G Test Set	78105	EWA 08-956						
TEST ITEM		WORK ORDER NO.		AUTHORITY		REF E. R. SER. NO.		OPERATION COMPLETION			
TIME	CONDITION NO.	WORK ITEM SER. NO.					SHOP	INSP.	ENGR.		
1200			3.2.7.0A Programmer Calibrator Test								DM
			Drawer Test (page 7) (Completed)								
			OK								
			Note: Formerly Sequence Drawer Test								
			Note: Cards resulting in No-G's were changed to G's by re-calibration of the P/G Test Set (page 10)								
1230			3.2.8.0A Monitor Launcher Missile								DM
			Status Drawer Test. (page 7) (Completed) OK								
			Note: Formerly Monitor Drawer Test								
			Note: Cards resulting in No-G's were changed to G's by re-calibration (page 10)								

PAGE 61347	JOB NUMBER	PART NUMBER	NOMENCLATURE	LEAD INSP. STAMP	INSP. REG. STAMP	CUS.
OF	25-22036-70	25-29278-2	Programmer Group (P/G)			
			P/G Test Set			

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TEST NUMBER		UNIT SERIAL NUMBER	TEST PLANNING	MANUFACTURING AND INSPECTION RECORD		PAGE
TEST ITEM	TEST ITEM	WORK ORDER NO.	BY	DATE	TEST LOG	OF
MODEL NO. WS 133A	TEST ITEM	SER. NO.	WORK ORDER NO.	AUTHORITY	PLANNING BUDGET VERIFICATION	DATE
1100	3.2.2.0 A	Voltage Level Check (page 4)	78105	EWA 08-956		3/20
1105	3.2.3.0 B	(Completed) OK				DM
1120	3.2.4.0 B	(Completed) OK				DM
1130	3.2.5.0 B	(Completed) OK				DM
1140	3.2.6.0 B	(Completed) OK				DM
1200	3.2.7.0 B	(Completed) OK				DM
1220	3.2.8.0 B	(Completed) OK				DM
	Vol. 2	T2-2548				
	Sec. 2	Page 16				

JOB NUMBER		PART NUMBER		NOMENCLATURE		LEAD INSP.		INSP. REG.	
PAGE	OF	61347	25-22036-70	Programmer	Group	STAMP	DATE	STAMP	DATE
			25-29278-2	P/G Test set	P/G				

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MODEL NO.		TEST ITEM		UNIT SERIAL NUMBER		TEST PLAN		MANUFACTURING AND INSPECTION RECORD		PAGE	
NO.	ITEM	NO.	ITEM	NO.	ITEM	BY	DATE	TEST LOG	PLANNING BUDGET VERIFICATION	DATE	OF
WS133A	EDIT II-1	002	P/G Test Set	78105	EWA 08-956					3-20-6	2
1300			3.2.3.0C (Completed)	OK							DM
1330			3.2.4.0C (Completed)	OK							DM
1345			3.2.5.0C (Completed)	OK							DM
1400			3.2.6.0C (Completed)	OK							DM
1415			3.2.7.0C (Completed)	OK							DM
1430			3.2.8.0C (Completed)	OK							DM
1500	Vol. 2 Sec. 2		3.2.3.0D (Completed)	OK							DM
1515	T2-2548 Page 17		3.2.4.0D (Completed)	OK							DM
1530			3.2.5.0D (Completed)	OK							DM

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JOB NUMBER		PART NUMBER		NOMENCLATURE		LEAD INSP.		INSP. REG.		CUS.	
NO.	ITEM	NO.	ITEM	STAMP	DATE	STAMP	DATE	STAMP	DATE	STAMP	DATE
		25-22036-70		Programmer Group							
		25-29278-2		Pkg Test Set							

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TEST NUMBER		UNIT SERIAL NUMBER		TEST PLANNING		MANUFACTURING AND INSPECTION RECORD		PAGE	
EDIT II-1		P/G 0000001		BY DATE		TEST 100		OF	
D2-13308 U012		P/G Test Set				TEST 100		2	
MODEL NO.		TEST ITEM		WORK ORDER NO.		AUTHORITY		DATE	
WS 133A						EWA 08-956		3/21/11	
CONDITION NO.		WORK ITEM NO.		REF E. R. SER. NO.		OPERATION COMPLETION		ENGR.	
TIME									
0800		3.2.3.0 F	(Completed) OK						DM
0815		3.2.4.0 F	(Completed) OK						DM
0830		3.2.5.0 F	(Completed) OK						DM
0900		3.2.6.0 F	(Completed) OK						DM
0915		3.2.7.0 F	(Completed) OK						DM
1000		3.2.8.0 F	(Completed) OK						DM
1100	Vol. 2 Sec. 2	3.2.3.0 F	(Completed) OK						DM
1115	T2-2546 Page 19	3.2.4.0 F	(Completed) OK						DM
1130		3.2.5.0 F	(Completed) OK						DM

JOB NUMBER		PART NUMBER		NOMENCLATURE		LEAD INSP. REG.	
61347		25-22036-70		Programmer (P/G)		INSP. REG.	
J3 4400 5603 ORIG. 6/60		25-29278-2		P/G Test Set		STAMP DATE	
PAGE	OF						

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TE-1 NUMBER		UNIT SERIAL NUMBER		TEST PLANNING		MANUFACTURING AND INSPECTION RECORD		PAGE	
EDIT II-1		P/80000001		BY DATE		TEST LOG		OF	
D2-13306 Vol. 2		P/6 Test Set 002				AUTHORITY		DATE	
MODEL NO.		TEST ITEM		WORK ORDER NO.		78105 EWA 08-956		3/22/	
WS 133A		SER. NO.							
TIME	CONDITION	NO.	WORK ITEM	NO.	REF. E. R. SER. NO.	SHOP	INSP.	ENGR.	
0800			3.2.2.0 B (Completed)						DM
0830			3.2.3.0 G (Completed)						DM
0900			3.2.4.0 G (Completed)						DM
0915			3.2.5.0 G (Completed)						DM
0930			3.2.6.0 G (Completed)						DM
0945			3.2.7.0 G (Completed)						DM
1000			3.2.8.0 G (Completed)						DM
1100			3.2.3.0 H (Completed)						DM
1130			3.2.4.0 H (Completed)						DM

PAGE		JOB NUMBER		PART NUMBER		NOMENCLATURE		LEAD INSP.		INSP. REC.	
OF		61347		25-22086-70		P/6 Programmer (P/G)		STAMP		STAMP	
				25-29278-2		P/G Test Set		DATE		DATE	

U3 4400 5605 ORIG. 6/60.

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TEST NUMBER		UNIT SERIAL NUMBER	TEST PLANNING	MANUFACTURING AND INSPECTION RECORD		PAGE
EDIT II-1		P/G 0000001	BT	TEST LOG		OF
D2-13308 Vol. 2		P/G-Test Set 002	DATE	AUTHORITY		DATE
MODEL NO. WS 133A		WORK ORDER NO.	78105	EWA 08-956		3/22/
TIME	CONDITION NO.	WORK ITEM NO.	TEST ITEM	REF. E. R. SER. NO.	OPERATION COMPLETION	ENGR.
					SHOP	INSP.
1200			3.2.5.0 H (Completed)			DM
1215			3.2.6.0 H (Completed)			DM
1230			3.2.7.0 H (Completed)			DM
1300			3.2.8.0 H (Completed)			DM
1330			3.2.3.0 I (Completed)			DM
1345			3.2.4.0 I (Completed)			DM
1400			3.2.5.0 I (Completed)			DM
1415			3.2.6.0 I (Completed)			DM
1430			3.2.7.0 I (Completed)			DM

PAGE	JOB NUMBER	PART NUMBER	NOMENCLATURE	LEAD INSP.	INSP. REG.
OF				STAMP	DATE
	61347	25-22036-70	Programmer		
		25-29278-2	P/G Test Set		

U3 4400 5605 ORIG. 6/50

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T. NUMBER EDIT II-1	UNIT SERIAL NUMBER P/G 0000001	TEST PLANNING		MANUFACTURING AND INSPECTION RECORD	PAGE OF	2
		BY	DATE			
D2-13308 Vol. 2	P/G TEST SET 002			TEST LOG	PAGE SER. NO.	2

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PAGE	JOB NUMBER	PART NUMBER	NOMENCLATURE	LEAD		INSP.		REG.		CUS.
				STAMP	DATE	DATE	STAMP	DATE	DATE	
	61347	25-22036-70	PROG RAMMER							
OF		25-220278-2	GROUP (P/G)							
			P/G TEST S27							

THE BOEING COMPANY

NUMBER T2-2548 MODEL NO. VS-133A
 TITLE Engineering Development Integration Test No. Two
(EDIT II-1) - Photographs

2-5142

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RELIABILITY
 APPROVAL

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(DATE)

SECTION TITLE PAGE U3 4288 0000 REV. 2/61

AF 04(647)-289
 CONTRACT NO.

5-78105-8640-68956
 CHARGE NUMBER

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1.0.0

PHOTOGRAPHS

1.0.1

The photographs which follow show the P/G and P/G Test Set.

Photograph two shows the Test Set connected to the P/G. The

Test Set is in two parts, the power supply for the Test Set

being a separate unit. The power supply, shown in photograph

two, to the left of the P/G and P/G Test Set, is also used in

the P/G Test Set - self-test.

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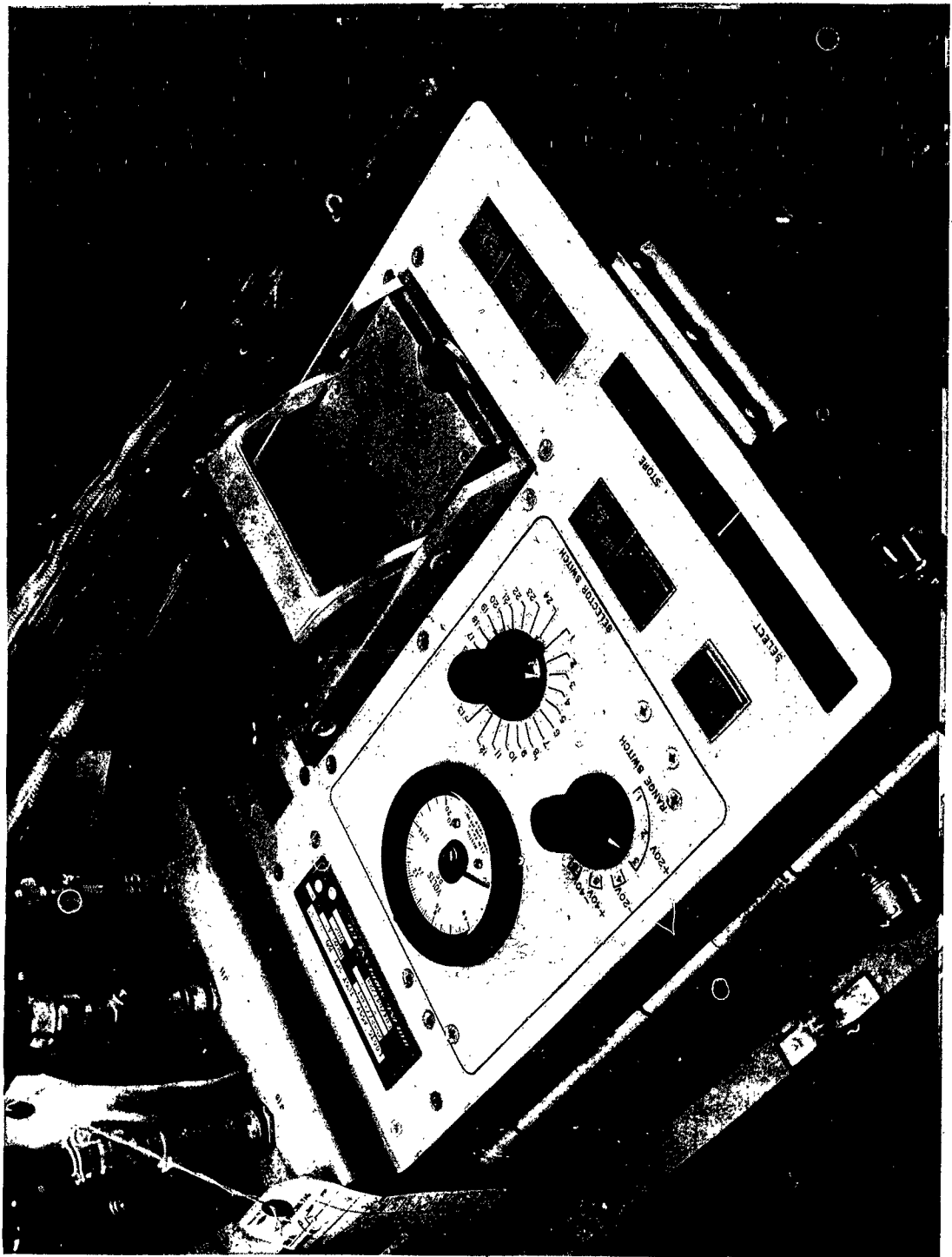
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AN ENGINEER DESIGN EDIT INTERGRATION 2A106465
 EDIT TEST EQUIPMENT - 4-3-62



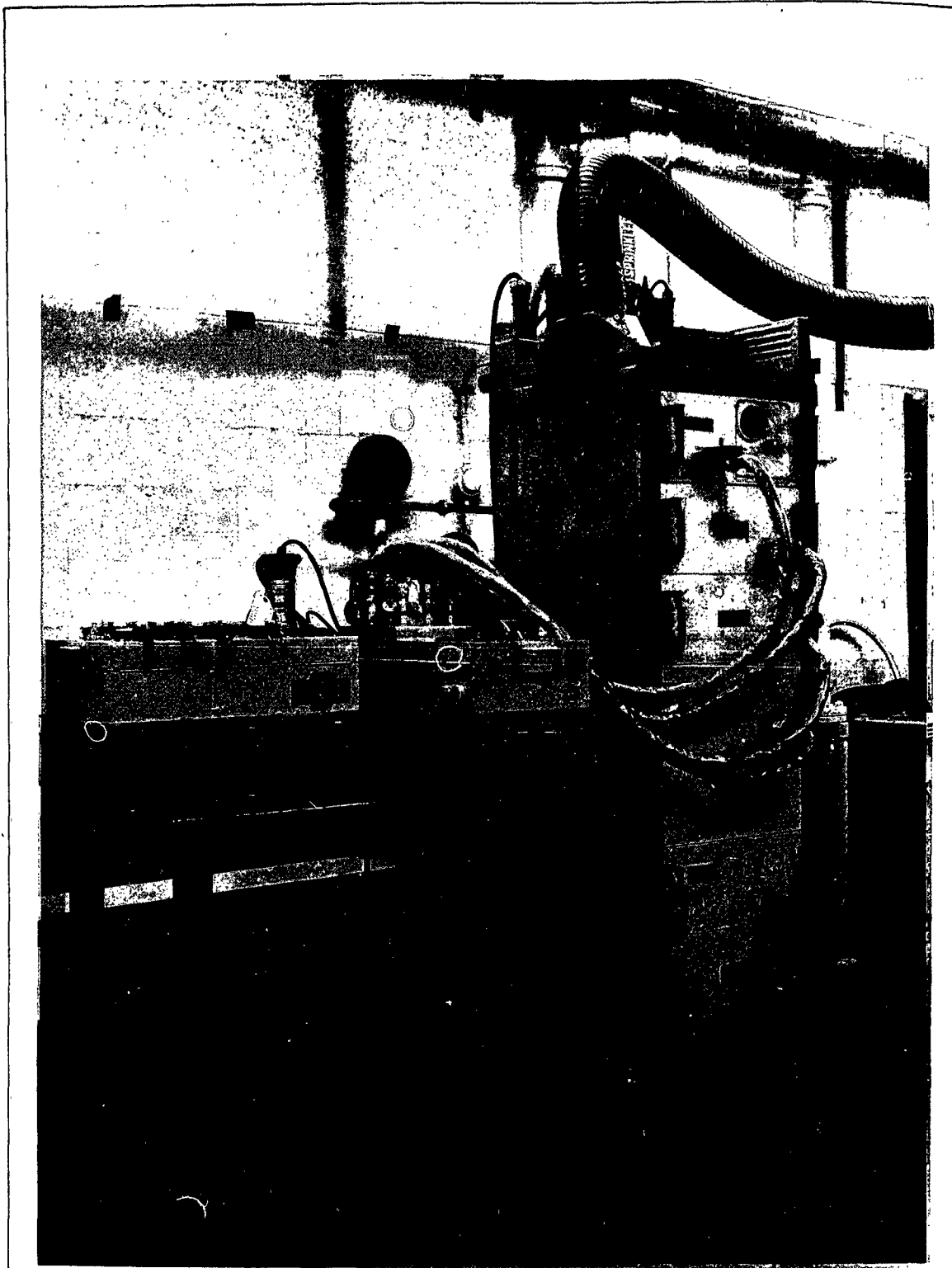
PROGRAMMER GROUP TEST SET (PORTABLE) FIG. A 3092

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MINUTEMAN
 TEST - ED., TEST EQUIPMENT - 4-3-62
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PROGRAMMER GROUP TEST SET & PROGRAMMER GROUP

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THE BOEING COMPANY

NUMBER T2-2548 MODEL NO. WS133A

TITLE Engineering Development Integration

Test No. Two-B (EDIT II-1B) Report

2-5142

SECTION: TITLE PAGE U3 4288 0000 REV. 2/61

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RELIABILITY
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AF 04(647)-289
CONTRACT NO.

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1.0

PURPOSE

This section presents the test report of the Engineering Development Integration Test number two on Block Change -1 equipment of Operational Configuration -- EDIT II-1B. The test was conducted in accordance with the Test Procedures Document D2-13308, Volume 2, and the EDIT Program Plan D2-13307.

1.1

EQUIPMENT IN TEST

Programmer Group, Fig. A 1201, Ser. No. 0000034

Programmer Group Test Set, Fig. A 3092, Ser. No. 0003

Dummy Decoder Relay Assembly, Fig. A 3113, Ser. No. 0002

Power Supply, Fig. A 4523, Ser. No. 0000001

2.0

SUMMARY

2.1

The Self-Test of the Programmer Group (P/G) Test Set was completed in accordance with paragraph 3.1.0. The tolerances were increased for the voltage check of paragraph 3.1.3.2 (3) at Selector Switch 15 and 18 to allow for diode voltage drops.

Compatibility tests between the P/G and the P/G Test Set had continuous erratic NO-GO's on different cards. Majority of the times the first check would be a NO-GO and additional test gave GO's by opening and closing the Card Reader. All equipment was checked for configuration and functional tests. The Programmer Group had to be functional tested in the -89 configuration, and the P/G Test Set had calibration certification. Erratic NO-GO's

continued after these tests were completed. These conditions were more prevalent on the End-to-End tests than on individual drawer tests. Additional checks were made on the P/G Test Set and it was found that the trouble was in the Card Reader Assembly. A new assembly that passed functional test was installed in the P/G Test Set. The End-to-End test was performed and all was GO. The complete EDIT II-1 test was performed with all tests GO. The following day we ran through the End-to-End test (60 cards) eight times to obtain performance data on the new Card Reader Assembly. There were three NO-GO's during this test.

No formal demonstration was held for this test by direction of BSD/STL representative. The EDIT II-1 test in March 1962 demonstrated to the customer and BSD/STL that the equipment is compatible.

3.0 REPORT

3.0.1 The EDIT II-1B test was performed according to the Test Procedure Document D2-13308, Volume 2. These procedures and the recorded results are given in paragraph 3.1.0.0 through 3.3.8.3 which follow.

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.1.0.0</p> <p><u>P/G TEST SET SELF-TEST PROCEDURES</u></p> <p>3.1.1.0</p> <p>Test Set-Up</p> <p>3.1.1.1</p> <p>The P/G Test Set must be isolated from all electronic equipment with the exception of the Test Set Power case.</p> <p>3.1.1.2</p> <p>Connect the Fig. A 4523 Distribution Box, and P/G Test Set, as shown in Figure 3.1.1.2-4.</p>		OK	

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Fault Locator

Distribution Box

Part of Fig. A 3092

Part of Fig. A 3092

J1	P1	W1	P32	A2J1
J2	P2	W2	P31	A1J1
J3	P3	W3	P27	J7
J4	P4	W4	P29	J9
J6	P6	W6	P34	A4J1
J7	P7	W7	P33	A3J1
J8	P8	W8	P28	J8
J9	P9	W9	P30	J10
J10	P10	W10	P23	J3
J11	P11	W11	P37	A7J1
J12	P12	W12	P36	A6J1
J13	P13	W13	P21	J1
J14	P14	W14	P35	P2
J15	P15	W15	P24	J4
J18	P18	W18	P22	J2
J19	P19	W19	P25	J5

Power Supply

P5	J5	W5	P26	J4
	120V AC	W16	P20	J5

Fig. A 4623

Self-Test of P/G Test Set Connection

Figure 3.1.1.2-4

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.1.1.3 Connect power cable to 120 volt, 60 cps outlet.</p> <p>3.1.1.4 Press the TEST SET POWER ON switch on the Test Set. NOTE: The Test Set must be ON for 30 seconds before running any card tests.</p> <p>3.1.1.5 Press the P/G POWER ON switch.</p>	<p>TEST SET POWER ON lamp turns ON. The AFS ALARM and W/H ALARM lamps turn ON. The WARNING lamp starts flashing at 4 cps. These conditions exist until the 13th card.</p> <p>P/G POWER ON lamp ON.</p>	<p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p>	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.1.2.0</p> <p><u>CARD TESTS</u></p> <p>3.1.2.1</p> <p>Remove program cards from the card container as required by the procedures and insert in UNTESTED CARDS slot of Test Set.</p> <p>3.1.2.2</p> <p>Insert selected punched cards, as called out by this procedure; in the Test Set CARD READER face up and beveled corner out. Pull CARD READER HANDLE fully back to engage electrical contacts.</p>			

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.1.2.3</p> <p>Push START TEST button on the Test Set.</p> <p><u>NOTE:</u> The START TEST switch must be held down until the START TEST lamp turns ON.</p>	START TEST lamp ON.	OK	
<p>3.1.2.4</p> <p>GO or NO-GO lamp will illuminate and the TEST IN PROCESS lamp will go OFF.</p> <p><u>NOTE:</u> Additional instructions, when needed, are given for each card test.</p>	TEST IN PROCESS lamp OFF. GO or NO-GO lamp ON.	OK OK	
<p>3.1.2.5</p> <p>Record each test result in appropriate column allocated for each card or voltage test in this document.</p>			

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.1.2.6 Push card reader handle, remove card and place it in the TESTED CARD slot.</p> <p>3.1.2.7 Repeat paragraphs 3.1.2.1 thru 3.1.2.6 for each succeeding test.</p> <p>3.1.3.0 <u>SELF-TEST</u></p> <p>3.1.3.1 Select punched cards (25-30947-125 thru 25-30947-147) for self-test of the Test Set.</p>			

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.1.3.2</p> <p>Follow paragraphs 3.1.2.1 thru 3.1.2.7 starting with card 25-30947-125.</p> <p>(1) Card 25-30947-125. After the GO lamp is ON, set the Range Switch at 3, and rotate the Selector Switch successively through the positions indicated in Table 3.1.3.2-4. Read the voltmeter at each position of the Selector Switch.</p> <p>(2) Card 25-30947-126. Follow same procedure as number 1 above.</p>	<p>GO lamp ON.</p> <p>The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch.</p> <p>NO-GO lamp ON.</p> <p>The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch except at position 14 which read 0 ± 0.5 volts.</p>	<p>OK</p> <p>See Table 3.1.3.2-4</p> <p>OK</p> <p>See Table 3.1.3.2-4</p>	

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Table 3.1.3.2-4 Voltmeter Switching Requirements Self-Test Procedure							
Selector Switch Position	Card-125 Accept. Volts	Card-125 Volts Read	Card-126 Accept. Volts	Card-126 Volts Read	Card-127 Accept. Volts	Card-127 Volts Read	Card-128 Accept. Volts
1	$10 \pm 0.5V$	$10.0V$	$10 \pm 0.5V$	$10.0V$	$10 \pm 0.5V$	$10.0V$	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$
12							
13	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$
14							
15	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$
16							
17	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$
18	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$	$10.0V$	$10 \pm 0.5 V$

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.1.3.2 (Continued) (3) Card 25-30947-127. Follow same procedure as number (1) above.	GO lamp ON. The voltmeter shall read 10 ± 0.5 volts on selector switch positions 1 thru 13. Position 15 & 18 shall read 10 ± 0.5 V 1.1	OK See Table 3.1.3.2-4	
(4) Card 25-30947-128. Follow same procedure as number (1) above.	NO-GO lamp ON. The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch. GO lamp ON	OK OK See Table 3.1.3.2-4	
(5) Card 25-30947-129. <u>NOTE:</u> This test requires 66 seconds for completion.		OK	
(6) Card 25-30947-130	GO lamp ON.	OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.1.3.2 (Continued)			
(7) Card 25-30947-131	NO-GO lamp ON.	OK	
(8) Card 25-30947-132	GO lamp ON.	OK	
(9) Card 25-30947-133	GO lamp ON.	OK	
(10) Card 25-30947-134	NO-GO lamp ON.	OK	
(11) Card 25-30947-135	GO lamp ON. The stepping switch will scan 4 times during test with an audible pause between scans.	OK	
Repeat test but this time push the P/G POWER OFF switch during first scan of stepping switch.	NO-GO lamp ON.	OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.1.3.2 (Continued)			
(12) Card 25-30947-136	GO lamp ON.	OK	
(13) Card 25-30947-137.	GO lamp ON.	OK	
Repeat test, but this time push the P/G POWER OFF switch during test.	NO-GO lamp ON. The W/H ALARM, AFS ALARM and WARNING lamps will turn OFF when the P/G POWER OFF switch is depressed. The lamps will turn back ON when switch is released.	OK	
(14) Card 25-30947-138.	GO lamp ON. The AFS ALARM lamp turns OFF during test.	OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.1.3.2 (Continued)</p> <p>(15) Card 25-30947-139. Initiate test and observe the START TEST, AFS SAFETY, W/H ALARM, and WARNING lamps.</p>	<p>The following events take place:</p> <p>A. Shortly after pressing the START TEST switch:</p> <p>(1) The AFS ALARM lamp turns OFF momentarily.</p> <p>(2) The START TEST lamp turns ON.</p> <p>B. After the START TEST lamps turn ON:</p> <p>(1) The W/H ALARM turns OFF.</p> <p>(2) The WARNING lamp starts flashing at 25% duty cycle.</p>	<p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p>	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
(18) Card 25-30947-142	GO lamp ON.	OK	
(19) Card 25-30947-143	GO lamp ON.	OK	
(20) Card 25-30947-144	GO lamp ON. The W/H ALARM, AFS ALARM and WARNING lamps will turn OFF when the card reader handle is operated UP. The START TEST lamp turns ON. When the step- ping switch starts its scan, the lamps will turn back ON. AFS alarm OFF.	OK OK OK OK OK OK OK OK OK OK	
(21) Card 25-30947-145	GO lamp ON.		
(22) Card 25-30947-146			
(23) Card 25-30947-147	GO lamp ON.	OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.0.0</p> <p><u>COMPATIBILITY TEST OF P/G WITH THE</u></p> <p><u>P/G TEST SET.</u></p> <p>3.2.1.0</p> <p>Test Set-Up.</p> <p>3.2.1.1</p> <p>The P/G must be isolated from all electronic equipment with the exception of its SOURCE POWER SUPPLY and associated P/G Test Set equipment.</p> <p>3.2.1.2</p> <p>Apply cooling air to P/G (Ref. 2.1.2).</p> <p>3.2.1.3</p> <p>Make the cable connections shown in Figure 3.2.1.3-4.</p>			

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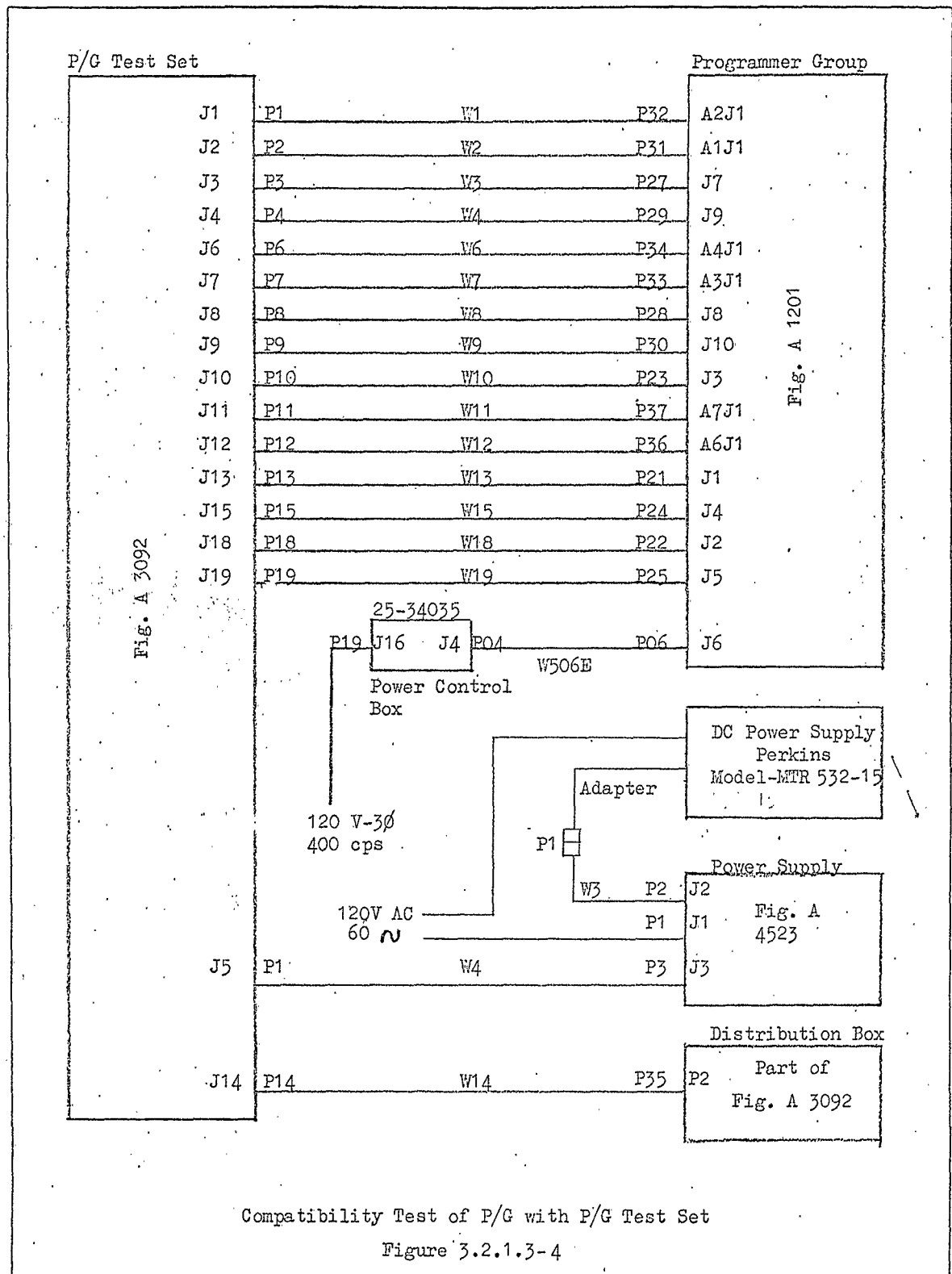
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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.1.4</p> <p>The Dummy Decoder is inserted into Launch Drawer No. 1 of the P/G.</p> <p>3.2.1.5</p> <p>Press the TEST SET POWER ON switch.</p> <p><u>NOTE:</u> The MONITOR POWER ON lamp on the P/G will have been ON continuously during preceding tests. It will remain On until the main LF circuit breaker is tripped OFF to replace a faulty P/G drawer.</p>	<p>TEST SET POWER ON lamp ON.</p>	<p>OK</p>	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.2.0 <u>VOLTAGE LEVEL CHECK</u> 3.2.2.1 P/G Monitor Power ON Only 3.2.2.2 Measure the voltages at the Range and Selector positions on the Test Set as specified in Table 3.2.2.2-4. Record the results of each test on specified Table.	See Table 3.2.2.2-4.		
3.2.2.3 Press the P/G POWER ON switch.	P/G POWER ON lamps ON.	OK	
3.2.2.4 Measure the voltages at the Range and Selector positions on the Test Set as specified in Table 3.2.2.4-4. Record the results of each test on specified table.	See Table 3.2.2.4-4.		

RANGE												
+ 20 Volts DC						-20 V DC		+ 40 VDC			- 40 VDC	
1	1	2	2	3	3	4	4	5	5	6	6	6
Accept Volts	Volts Read	Accept Volts	Volts Read	Accept Volts	Volts Read	Accept Volts	Volts Read	Accept Volts	Volts Read	Accept Volts	Volts Read	Volts Read
1	0 to 2	0	0	0 to 2	0	0 to 2	0	0 to 5	0.8	0 to 5	0 to 5	0.5
2	0 to 0.5	0.25	0	0 to 2	0	0 to 0.5	0	28 ± 1	28			
3	10 ± 0.5	10.0	0	0 to 2	0	10 ± 0.5	10.1	0 to 0.5	0			
4	0 to 0.5	0.25	0	0 to 2	0	0 to 0.5	0	28 ± 1	28			
5	10 ± 0.5	10.0	0	0 to 2	0	10 ± 0.5	10.0	0 to 0.5	0			
6	0 to 0.5	0	0	0 to 2	0	0 to 0.5	0	0 to 0.5	0			
7	10 ± 0.5	10.1	0	0 to 2	0	10 ± 0.5	10.3	28 ± 1	28.5			
8	0 to 0.5	0	0	0 to 2	0	0 to 0.5	0	0 to 0.5	0			
9	10 ± 0.5	10.0	0	0 to 2	0	10 ± 0.5	10.0	28 ± 1	27.5			
10	10 ± 0.5	10.0	0	0 to 2	0	0 to 0.5	0	0 to 0.5	0			
11	0 to 0.5	0	0	0 to 2	0	10 ± 0.5	10.2	28 ± 1	28.1			
12	11.5 ± 0.5	11.7	0 to 2	0 to 2	0	17.5 ± 2.5	17.5	28 ± 1	28.0			
13	17 ± 2	17.5				17.5 ± 2.5	17.7	36 ± 3	35.0			
14	17 ± 2	17.5						36 ± 3	35.1			
15	17 ± 2	17.5										
16	17 ± 2	17.5										
17												
18												

Table 3.2.2.2-4 P/G Monitor Power ON Voltage Check

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RANGE												
+ 20 Volts DC						-20 VDC			+ 40 VDC		- 40 VDC	
1	2	3	4	5	6	7	8	9	10	11	12	13
Accept Volts	Volts Read	Accept Volts	Volts Read	Accept Volts	Volts Read	Accept Volts	Volts Read	Accept Volts	Volts Read	Accept Volts	Volts Read	Accept Volts
10 ± 0.5	10.0	10.5 ± 0.5	10.4	10.5 ± 0.5	10.5	10.5 ± 0.5	10.6	28 ± 1	28.0	30 ± 1	30.0	
↑	Δ	↑	Δ	↑	Δ	↑	Δ	↑	Δ	↑	Δ	
↓	▽	↓	▽	↓	▽	↓	▽	↓	▽	↓	▽	
10 ± 0.5	10.0	10.5 ± 0.5	10.4	10.5 ± 0.5	10.5	10.5 ± 0.5	10.6	28 ± 1	28.0	30 ± 1	30.0	
11.5 ± 0.5	11.5	10.5 ± 0.5	10.4	10.5 ± 0.5	10.5	10.5 ± 0.5	10.6	28 ± 1	28.0	30 ± 1	30.0	
17 ± 2	17.0											
17 ± 2	17.0											
17 ± 2	17.0											
17 ± 2	17.0											

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Table 3.2.2.4-4 P/G Monitor and Test Power ON Voltage Check

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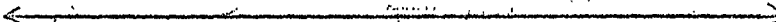
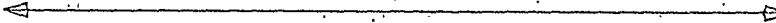
PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.3.0 <u>PHASE SUPPLY VOLTAGE TEST</u></p> <p>3.2.3.1 Select punched cards (25-31059-106 thru 25-31059-110) to check the phase supply voltage in each of the five drawers.</p> <p>3.2.3.2 Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume starting with card 25-31059-106.</p> <p><u>NOTE:</u> For more detail on function of these cards, see D2-12636, Volume I.</p> <p>(1) 25-31059-106</p> <p><u>NOTE:</u> This test shall be performed prior to any other test.</p>	<p>GO lamp ON</p>	<p>OK</p>	

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
(2) 25-31059-107		OK	
(3) 25-31059-108		OK	
(4) 25-31059-109		OK	
(5) 25-31059-110		OK	
3.2.4.0			
<u>END TO END TEST</u>			
3.2.4.1			
Select punched cards (25-26642-165 thru 25-26642-232) for End-to-End Test.			

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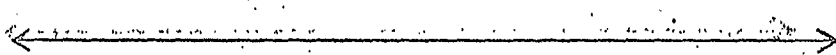
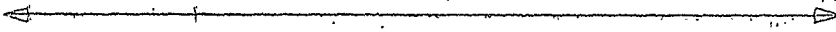
<u>DOING</u>	VOL 2	NO T2-2548
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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.4.2</p> <p>Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume and additional instructions stated in the procedure for each card, starting with card 25-26642-165.</p> <p><u>NOTE:</u> For more detail on function of these cards, see D2-12636, Volume II.</p> <p>(1) 25-26642-165</p> <p>(2) 25-26642-166</p> <p>(3) -168</p> <p>(4) -169</p> <p>(5) -170</p> <p>(6) -171</p> <p>(7) -172</p> <p>(8) -173</p> <p>(9) -174</p> <p>(10) 25-26642-175</p>	<p>GO lamp ON</p> <p>←</p> <p>→ GO lamp ON</p>	<p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p> <p>OK</p>	

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.4.2 (Continued) (11) 25-26642-176 (12) -177 (13) -178 (14) -180 (15) -181 (16) -182 (17) -183 (18) -184 (19) -185 (20) -187 (21) -188 (22) -189 (23) -190 (24) -191 (25) -193 (26) 25-26642-194	GO Lamp ON.  GO Lamp ON.	OK  OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.4.2 (Continued) (27) 25-26642-195 (28) -196 (29) -197 (30) -198 (31) -199 (32) -200 (33) -201 (34) -204 (35) -205 (36) -206 (37) -207 (38) -208 (39) -209 (40) -210 (41) -211 (42) -214 (43) 25-26642-215	GO Lamp ON.  GO Lamp ON.	OK  OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.4.3 Card 25-26642-216			
3.2.4.4 Select punched card 25-26642-216			
3.2.4.5 Follow paragraph 3.4.2.2			
3.2.4.6 Wait 40 ± 2 minutes and then push START TEST button.	NO-GO lamp ON.	OK	
3.2.4.7 Open and close the card reader and wait another 10 ± 2 minutes; then push TEST START button.	GO lamp ON.	OK	

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DD FORM

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.4.8 Card 25-26642-217</p> <p>3.2.4.9 Select punched card 25-26642-217.</p> <p>3.2.4.10 Follow paragraph 3.1.2.2.</p> <p>3.2.4.11 Depress the SHUT DOWN LAUNCH FACILITY button on the P/G. <u>CONTINUE TO HOLD BUTTON DOWN THROUGHOUT THIS CARD TEST.</u> Release only after GO or NO-GO is received.</p> <p>3.2.4.12 Press Test Start Switch</p> <p>Follow paragraphs 3.1.2.3 thru 3.1.2.6.</p>	GO lamp ON.	OK	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.4.13 Card 25-26642-218. 3.2.4.14 Select punched card 25-26642-218. 3.2.4.15 Follow paragraph 3.1.2.2. 3.2.4.16 Depress the P/G POWER OFF switch of the Test Set to initiate shut down. <u>KEEP DEPRESSED FOR DURATION OF TEST.</u>			

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ENDING

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.4.17</p> <p>Follow paragraphs 3.1.2.3 thru 3.1.2.6.</p> <p><u>NOTE:</u> To start up after the foregoing test, depress P/G POWER ON switch.</p>	GO lamp ON.	OK	
<p>3.2.4.18</p> <p>Select punched cards (25-26642-219 thru 25-26642-232).</p>			
<p>3.2.4.19</p> <p>Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume starting with card 25-26642-219.</p> <p>(1) 25-26642-219</p> <p>(2) -220</p> <p>(3) -221</p> <p>(4) -222</p> <p>(5) 25-26642-223</p>	<p>GO lamp ON.</p> <p>↕</p> <p>GO lamp ON.</p>	<p>OK</p> <p>↕</p> <p>OK</p>	

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U.S. 4258 2000 (WAS BAC 4131D)

ENDING

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SEC.

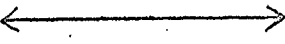
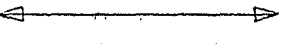
4

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6.1

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.5.2</p> <p>Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume starting with card 25-26643-120.</p> <p><u>NOTE:</u> For more detail on function of these cards, see D2-12636, Vol. III.</p> <p>(1) 25-26643-120</p> <p>(2) -121</p> <p>(3) -123</p> <p>(4) -124</p> <p>(5) -139</p> <p>(6) -126</p> <p>(7) -127</p> <p>(8) -128</p> <p>(9) -129</p> <p>(10) -130</p> <p>(11) 25-26643-131</p>	<p>GO lamp ON.</p> <p>GO lamp ON.</p>	<p>OK</p> <p>OK</p>	

R

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.5.2 (Continued) (12) 25-26643-132 (13) -133 (14) -134 (15) -135 (16) -136 (17) -137 (18) 25-26643-138	GO lamp ON.  GO lamp ON.	 OK	
3.2.6.0 <u>PROGRAMMER LAUNCH SEQUENCE DRAWER TEST</u> 3.2.6.1 Select punched cards (25-26644-128 thru 25-26644-164.) 3.2.6.2 Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume starting with 25-26644-128.			

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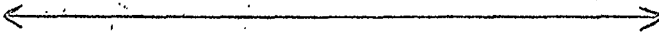
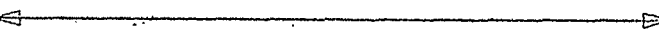
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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.6.2 (Continued) <u>NOTE:</u> For more detail on function of these cards, see D2-12636, Vol. IV. (1) 25-26644-128 (2) -129 (3) -130 (4) -131 (5) -132 (6) -133 (7) -134 (8) -135 (9) -136 (10) -137 (11) -139 (12) -140 (13) -142 (14) 25-26644-143	GO lamp ON. 		

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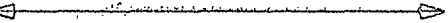
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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.6.2 (Continued) (15) 25-26644-145 (16) -156 (17) -157 (18) -158 (19) -159 (20) -160 (21) -161 (22) -162 (23) -163 (24) 25-26644-164	GO lamp ON. 	OK 	
3.2.7.0 <u>PROGRAMMER CALIBRATOR TEST DRAWER TEST</u> 3.2.7.1 Select punched cards (25-26645-128 thru 25-26645-157).			

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
<p>3.2.7.2</p> <p>Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume, starting with card 25-26645-128.</p> <p><u>NOTE:</u> For more detail on function of these cards, see D2-12636, Vol. V.</p> <p>(1) 25-26645-128</p> <p>(2) -129</p> <p>(3) -130</p> <p>(4) -131</p> <p>(5) -132</p> <p>(6) -133</p> <p>(7) -134</p> <p>(8) -135</p> <p>(9) -136</p> <p>(10) -137</p> <p>(11) 25-26645-138</p>	<p>GO lamp ON</p> <p>GO lamp ON</p>	<p>OK</p>	

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.7.2 (Continued) (12) 25-26645-139 (13) -140 (14) -141 (15) -142 (16) -143 (17) -144 (18) -145 (19) -146 (20) -147 (21) -148 (22) -149 (23) -150 (24) -151 (25) -152 (26) 25-26645-153	GO lamp ON.   GO lamp ON.	 OK  OK	

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 U3 4266 2000 (WAS DAC 4131D)

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.7.2 (Continued) (27) 25-26645-154 (28) -155 (29) -156 (30) 25-26645-157 3.2.8.0 <u>MONITOR LAUNCHER MISSILE STATUS DRAVER TEST</u>	GO lamp ON. ↕ GO lamp ON.	OK ↕ OK	
3.2.8.1 Select punched cards (25-26646-137 thru 25-26646-172.) 3.2.8.2 Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume, starting with card 25-26646-137.			

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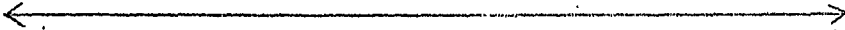
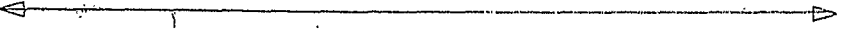
VOL 2

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PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.8.2 (Continued) (1) 25-26646-137 (2) -139 (3) -140 (4) -141 (5) -142 (6) -143 (7) -144 (8) -145 (9) -146 (10) -148 (11) -150 (12) -153 (13) -154 (14) -155 (15) -156 (16) -157 (17) 25-26646-158	GO lamp ON.  GO lamp ON.	 OK	

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U3 4286 2000 (WAS OAC 41310)


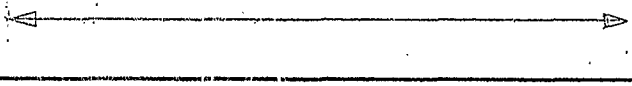
BOEING

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SEC. 4

PAGE 4th

PROCEDURE	ACCEPTABLE DATA	RECORD DATA	COMMENTS
3.2.8.2 (Continued) (18) 25-26646-159 (19) -160 (20) -162 (21) -163 (22) -164 (23) -165 (24) -166 (25) -167 (26) -168 (27) -169 (28) -170 (29) -171 (30) 25-26646-172 3.3.8.3 Test complete.	GO lamp ON.  GO lamp ON.	OK  OK	

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4.0

CONCLUSION

4.1

The EDIT II-1B test demonstrated that the operational configuration of the Programmer Group, P/G Test Set, Power Supply and Dummy Decoder Relay Assembly are physically, functionally, and electrically compatible. The problem discovered with the Card Reader Assembly in the P/G Test Set is being worked by the design group and packaging group. There are three areas of investigation: (1) Determine performance of the Test Sets delivered to operational sites. (2) Investigate materials and processes used on the Card Reader Assembly. (3) Evaluate the possibility of redesigning the Card Reader Assembly.

THE BOEING COMPANY

NUMBER T2-2548 MODEL NO. WS133A

TITLE Engineering Development Integration

Test No. Two B (EDIT II-1B) Test Log

2-5142

SECTION TITLE PAGE U3 4288 0000 REV. 2/61

PREPARED BY

D. W. Gladish

3/14/63

SUPERVISED BY

D. W. Gladish

3/12/63

APPROVED BY

E. G. Helling

3/13/63

RELIABILITY
APPROVAL

R. B. Edgar

(DATE)

AF 04(647)-289
CONTRACT NO.

5-78105-8640-68956
CHARGE NUMBER

2/22/63

VOL. <u>2</u>	NO. <u>T2-2548</u>
SEC. <u>5</u>	PAGE 1 OF <u>34</u>

1.0

MANUFACTURING & INSPECTION RECORD - TEST LOG

The following M&IR Test Log shows the test results recorded during EDIT II-1B. This EDIT Test was completed on January 17, 1963. Boeing Quality Control verification was not required for the Test Log.

REV SYM

2/22/3

BOEING

NO. T2-2548, Vol. 2

SECT. 5

PAGE 2

TEST NUMBER		UNIT SERIAL NUMBER		TEST PLANNING		MANUFACTURING AND INSPECTION RECORD						PAGE OF
				BY	DATE	TEST LOG						
EDIT II-1B 02-13308 VOL. 2		SEE BELOW				AUTHORITY EWA 8956						DATE 12/11/6
MODEL NO. WS 133A		WORK ORDER NO. 78105				PLANNING BUDGET VERIFICATION						
TEST ITEM SER. NO.		CONDIION NO.		WORK ITEM NO.		REF E.R. SER. NO.						
						SHOP INSP. ENGR.						
222/3						This Test is performed to demonstrate compatibility of Operational Equipment:						
						Programmer Group, Fig. A-1201; Programmer Group Test Set, Fig. A-3092; Dummy Decoder Relay Assembly, Fig. A-3113; Power Supply, Fig. A-4523.						
						The procedures for this Test are in document D2-13308, Volume 2, section 2.						
						Equipment:						
				D2-2548, Vol. 2 Sec. 5 Page 3		P/G 25-22036-89 Unit 0000034						
						P/G Test Set 25-26725-1 Unit 0003						
						Dummy Decoder Relay Assy 25-26839-12 Unit 0002						
						Power Supply 25-29137-1 Unit 0000001						
						DC Power Supply, Model-TP-15, BAC #521647						
						DC Power Supply, Model-TP-15, USAF36041/PFC. 6492						
						400W Pwr Control Box 25-34035						

PAGE 1 OF 3
 JOB NUMBER 61347
 U3 4400 5605 ORIG. 6/60

[illegible]

[illegible]

[illegible]

TEST NUMBER		UNIT SERIAL NUMBER		TEST PLANNING		MANUFACTURING AND INSPECTION RECORD		PAGE	
EDIT II-1B		—		BY DATE		TEST LOG		OF 3	
D2-13308 Vol. 2		—		—		TEST LOG		—	
TEST ITEM		WORK ORDER NO.		AUTHORITY		PLANNING BUDGET		DATE	
SER. NO.		78105		EWA 8956		VERIFICATION		12/12/6	
MODEL NO. W5133A		WORK 11.11		REF. E. R.		SHOP		ENGR.	
CONDITION NO.		NO.		SER. NO.		INSP.		COMPLETION	
1300		TP 3.2.6							
		Cards 25-26644-128 thru-164							
		All - GO							
400		TP 3.2.7							
		Cards 25-26645-128 thru-157							
		Card 25-26645-134 Gave NO-GO							
1445		TP 3.2.8							
		Cards 25-26646-137 thru-172							
		All - GO							
1515		Repeat TP 3.2.4							
		Cards 25-26642-169							
		-171							
		-173							
		-195							
		-232							
		NO-GO							

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JOB NUMBER

61347

PART NUMBER

COMPATIBILITY TEST

LEAD INSP. STAMP

INSP. REG. DATE

CUS. DATE

[illegible]

[illegible]

TEST NUMBER		UNIT SERIAL NUMBER		TEST PLANNING		MANUFACTURING AND INSPECTION RECORD		PAGE	
EDIT II-1B		—		BY DATE		TEST LOG		OF	
D2-13308 Vol. 2		—		—		TEST 106		—	
TEST ITEM		WORK ORDER NO.		AUTHORITY		PLANNING BUDGET VERIFICATION		DATE	
W5133A		78105		EWA 8956		—		12/13	
MODEL NO.	SER. NO.	CONDITION NO.	WORK ITEM NO.	REF. E. R. SER. NO.	OPERATION COMPLETION	SHOP	INSP.	ENGR.	
0800	TP 3.2.4								
	N0-G0 cards 25-26642-219								
	TP 3.2.5 All Cards GO								
	TP 3.2.6 All Cards GO								
	TP 3.2.7 All Cards GO								
	TP 3.2.8 All Cards GO								
	Repeat TP's 3.2.4 thru 3.2.8								
	N0-G0's TP 3.2.4 25-26642-177								
	-206								
	-209								

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OF

JOB NUMBER

61347

PART NUMBER

COMPATIBILITY TEST

U3 4400 5505 ORIG. 6/60

[illegible]

TEST NUMBER		UNIT SERIAL NUMBER		TEST PLANNING		WORK ORDER NO.		TEST ITEM		MODEL NO.		PAGE SER. NO.		PLANNING BUDGET		DATE		PAGE OF	
EDIT II-1B		D2-13308 Vol. 2		WS133A		78105		78105		EWA 8956		TEST LOG		AUTHORITY		DATE		PAGE OF	
TIME	CONDITION NO.	WORK ITEM NO.	TEST ITEM SER. NO.	UNIT SERIAL NUMBER	TEST PLANNING BY DATE	WORK ORDER NO.	TEST ITEM	MODEL NO.	PAGE SER. NO.	PLANNING BUDGET	DATE	PAGE OF							
1420							TP 3.2.5 NO-GO Card 25-26643-123												
							TP 3.2.6 All Cards -- GO												
							Ray Miller from P/G Test Set design removed bottom cover from Test Set and took out Phase Supply Evaluator cards A-7, A-8, & A-9. This was done to correct NO-GO signals on GO cards. Results -- NO-GO on cards 25-26642-168 -171 -177												
1535							Shut-down all equipment and replaced Fig. A 4523 with ACO 711 Power Supply, Serial No. 0001, Part No. 25-26826-6 Results -- NO-GO cards on 25-26642-174												

[illegible]

[illegible]

[illegible]

UNIT SERIAL NUMBER		TEST PLANNING	TEST LOG	PLANNING BUDGET VERIFICATION	PAGE SER. NO.	PAGE OF
BY	DATE	TEST LOG	PLANNING BUDGET VERIFICATION	PAGE SER. NO.	PAGE OF	
MODEL NO. 1415	WORK ORDER NO. 78105	TEST ITEM SER. NO. 1415	DISCONNECTED P/G TEST SET SER. NO. 0004	REF. E. R. SER. NO.	OPERATION COMPLETION	DATE 12/17/71
1415	1415	1415	and returned to EDL/ET	SHOP	INSP.	ENGR
1415	1415	1415	Connected Test Set, ser. No. 0003, and continued test compatibility.	SHOP	INSP.	ENGR
1415	1415	1415	Review of M & IR paper on Fig. A 3092, ser. No. 0003, revealed it had not had calibration certified since August '62. This certification is required every 60 days so this had to be done	SHOP	INSP.	ENGR
1415	1415	1415	Calibration certification begun on Fig. A 3092.	SHOP	INSP.	ENGR
1415	1415	1415	BTS 155A received in EDIT LAB	SHOP	INSP.	ENGR
1415	1415	1415	No Cables	SHOP	INSP.	ENGR
1415	1415	1415	Arrangements continued to pick-up cables during Second shift	SHOP	INSP.	ENGR

COMPATIBILITY TEST

US 4400 5605 ORIG. 6/60

JOB NUMBER 61347

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MANUFACTURING AND INSPECTION RECORD						PAGE OF
TEST PLANNING		TEST LOG	PAGE SER. NO.	DATE		
BY	DATE					
UNIT SERIAL NUMBER		WORK ORDER NO.	AUTHORITY	PLANNING BUDGET	VERIFICATION	
INITIALS						
D2-13308 Vol. 2			EWA 8956			12/1/74
MODEL NO.	SER. NO.	TEST ITEM	REF E. R. SER. NO.	OPERATION COMPLETION	INSP. REG.	CL
CONDITION NO.	WORK ITEM NO.			SHOP	STAMP DATE	
1000		Calibration completed on P/O Test Set				
1200		0003 -				
		(1) The D calibration Inter-pulse Level was below the -1.75 ± .05 volt DC at jack INPUT				
		(2) Calibration of Pulse Generators Card A15 - there was 113 microsecond pulse at jack M1 OUTPUT instead of 110 ± 2 μ sec.				
		(3) Calibration of Inhibit Amplifiers Card A16 - voltage at jack Φ1 OUTPUT was 20 volt DC instead of 17 ± .5 volt DC				
	T2-1540 Sec. 5	Vol. 2 Page 16				
		Card A16 - voltage at jack Φ2 OUTPUT was 20 volt DC instead of 17 ± .5 volt DC				

U3 4400 5605 ORIG. 6/60
 JOB NUMBER
G1347
 PART NUMBER
 NOMENCLATURE
COMPATIBILITY TEST
 LEAD INSP. STAMP DATE
 INSP. REG. CL
 PAGE 1 OF

[illegible]

UNIT SERIAL NUMBER		TEST PLANNING BY DATE		MANUFACTURING AND INSPECTION RECORD		PAGE OF
				TEST LOG		
WORK ORDER NO.		78105		AUTHORITY EWA 8956		DATE 12/19
MODEL NO. 15133A		SER. NO.		PLANNING BUDGET VERIFICATION		
CONDITION NO.		WORK ITEM NO.		REF. E. R. SER. NO.		OPERATION COMPLETION STOP INSP. ENGR.
1000				Worked out problem with QC and Liaison Engineering to use Ellison Amelined Draft Sage in place of Homewell Manometer 704X352 as called out in D2-7817, Vol. 3, Sec. 2, TP 5.1.4 This condition was corrected with a Type 2 ER		
				Procured a Perkins Power Supply, Model MTR 532-15 as called out in Doc. D2-7817, Vol. 3, Sec. 2, TP 5.2.4		
1030	T2-548, Vol. 2 Sec. 5 Page 18			A.C. C Certification required on P/S - into Lab		
1410				Per. Supply returned from Lab		
1530				1201 - Per A-6 - Switch S2 -- NO-GD Reset		
				Found to be mislabeling - to be replaced		
PAGE 15 OF		JOB NUMBER / G1347		PART NUMBER 0		CUS.
				COMPATIBILITY TEST		

[illegible]

MANUFACTURING AND INSPECTION RECORD										PAGE OF
UNIT SERIAL NUMBER		TEST PLANNING BY DATE		WORK ORDER NO.		TEST LOG		PAGE SER. NO.		DATE
UNIT SERIAL NUMBER		TEST PLANNING BY DATE		WORK ORDER NO.		TEST LOG		PAGE SER. NO.		DATE
UNIT SERIAL NUMBER		TEST PLANNING BY DATE		WORK ORDER NO.		TEST LOG		PAGE SER. NO.		DATE
1533	1533	1533	1533	1533	1533	1533	1533	1533	1533	1533
<p>Problems in BTS 155A OR Fig. A 1201 have been discovered by technician</p>										
<p>T2-2540, Vol. 2 Sec. 5 Page 20</p>										
<p>2/22/3</p>										
<p>17</p>										
<p>61347</p>										
<p>U3 4400 5605 ORIG. 6/60</p>										

TEST NO.		UNIT SERIAL NUMBER		TEST PLANNING		TEST LOG		PAGE OF	
E.D. IT II-1B		12-13308 K1.2		BY DATE		TEST LOG		PAGE OF	
MODEL NO.		WORK ORDER NO.		AUTHORITY		PAGE SER. NO.		DATE	
12-13308 K1.2		78105		EWA8956		VERIFICATION		12/13	
TEST ITEM		WORK ITEM		REF. E. R.		OPERATION COMPLETE		DATE	
12-13308 K1.2		12-13308 K1.2		SER. NO.		S. NO.		DATE	
12-13308 K1.2		12-13308 K1.2		SER. NO.		S. NO.		DATE	
0800									
1030									
1100									
1430									
1530									

12-13308 K1.2

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MANUFACTURING AND INSPECTION RECORD										PAGE OF
TEST PLANNING		TEST LOG		PAGE SER. NO.		PLANNING BUDGET VERIFICATION		DATE		
BY	DATE	TEST LOG	TEST LOG	TEST LOG	TEST LOG	TEST LOG	TEST LOG	TEST LOG	TEST LOG	
UNIT SERIAL NUMBER	WORK ORDER NO.	TEST ITEM	TEST ITEM	TEST ITEM	TEST ITEM	TEST ITEM	TEST ITEM	TEST ITEM	TEST ITEM	
78105	78105	78105	78105	78105	78105	78105	78105	78105	78105	
0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	
0830	0830	0830	0830	0830	0830	0830	0830	0830	0830	
1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	
<p>Values recorded on BTS 155A were compared with document values and corrected all readings were within tolerances.</p> <p>Functional testing continued on 1201 at TP 10.10 in doc. D2-7017, Vol. 3, Sec-2</p> <p>Functional test completed through TP 10.16.39</p> <p>Completed the hand planning paper was required during the remainder of the day.</p>										
<p>T2-2548, Vol. 2 Sec. 5 Page 20</p>										
<p>COMPATIBILITY TEST</p>										

[illegible]

[illegible]

UNIT SERIAL NUMBER		TEST PLANNING BY DATE		AUTHORITY		TEST LOG		PAGE SER. NO.		PLANNING BUDGET VERIFICATION		DATE		PAGE OF	
WORK ORDER NO.		78105		EWA 8956		TEST LOG		EWA 8956		PLANNING BUDGET VERIFICATION		DATE		PAGE OF	
<p>Continued performance found to End</p> <p>Completed testing - 1. Made 10 cycles</p> <p>with the following results. NO-GO cards</p> <p>1st 1st 3rd 4th 5th 6th</p> <p>-170 ALL-GO ALL-GO ALL-GO ALL-GO ALL-GO ALL-GO</p> <p>7th 8th 9th 10th</p> <p>-185 ALL-GO -198 -204</p> <p>-197 -221 -209</p> <p>-232 -231</p> <p>5/22/12</p> <p>T2-2548, Vol. 2 Sec. 5 Page 29</p>															
<p>JOB NUMBER 61347</p> <p>PART NUMBER</p> <p>NOMENCLATURE COMPATIBILITY TEST</p> <p>LEAD INSP. STAMP DATE INSP. REG. STAMP DATE</p>															

[illegible]

[illegible]

9/11

TEST NUMBER		UNIT SERIAL NUMBER		TEST PLANNING		MANUFACTURING AND INSPECTION RECORD		PAGE	
EDIT II-1B				BY DATE		TEST LOG		OF	
D2-13308 Vol. 2						EWA 8956		1-1	
TEST ITEM		WORK ORDER NO.		AUTHORITY		PLANNING BUDGET VERIFICATION		DATE	
WS133A		78105						1-1	
MODEL NO.	TEST ITEM	WORK ORDER NO.	UNIT SERIAL NUMBER	TEST PLANNING	BY	DATE	MANUFACTURING AND INSPECTION RECORD	PAGE	OF
TIME	CONDITION NO.	WORK ITEM NO.	TEST ITEM SER. NO.	TEST PLANNING	BY	DATE	MANUFACTURING AND INSPECTION RECORD	PAGE	OF
0800		1-	Continued End to End testing with the following NO-GO's						
			-168 -189 -204 -220						
			-173 -190 -205 -222						
			-180 -193 -206 -225						
			-181 -194 -214 -226						
			-185 -195 -215 -228						
			-188 -201 -219 -232						
		2-	Timer Sequential Test - All GO						
		3-	P/B Launch Sequence Test - NO-GO's						
			-132, -133, -136, -140, -145, -157						
		4-	Programmer Calibration Test - All GO						
		5-	Monitor Launches Missile Status Test -						
			NO GO's -- -141, -155, -156, -160						

PAGE		JOB NUMBER		PART NUMBER		NOMENCLATURE		COMPATIBILITY		LEAD INSP.		INSP. REG.	
OF		61347		---		COMPATIBILITY TEST		---		STAMP DATE		STAMP DATE	
		J3 4400 5605 ORIG. 6/60											

[illegible]

MANUFACTURING AND INSPECTION RECORD										PAGE OF	
TEST LOG				PLANNING BUDGET VERIFICATION		PAGE SER. NO.		DATE		1-17-	
UNIT SERIAL NUMBER		TEST PLANNING		WORK ORDER NO.		AUTHORITY		REF E. R. SER. NO.		OPERATION COMPLETION	
BY		DATE						SHOP		INSP.	
MODEL NO.		TEST ITEM SER. NO.		CONDITION		WORK ITEM NO.		TIME		ENG.	
78105		EWA 8956									
<p>Performance End to End test to obtain performance data on Card Reader Assy.</p> <p>(60 cards)</p> <p>1st cycle 2nd 3rd 4th</p> <p>All cards -174 All cards All cards</p> <p>GO -181 GO GO</p> <p>NO-GO</p>											
<p>5th 6th 7th 8th</p> <p>-199 All cards All cards All cards</p> <p>NO-GO GO GO GO</p>											
<p>Final shut-down of equipment in EDIT II-IB test. Elapsed time Meter reading - 0169.7 Total hours 141.3 hours</p>											
<p>T2-2548, Vol. 2 Sec. 5 Page 34</p>											
<p>COMPATIBILITY TEST</p>											
<p>JOB NUMBER 61347</p>											
<p>U3 4400 5605 ORIG. 6/60</p>											

THE BOEING COMPANY

NUMBER T2-2548 MODEL NO. WS133A
TITLE Engineering Development Integration
Test No. Two-B (EDIT II-1B) Photographs

PREPARED BY

D. W. Gladish
D. W. Gladish

3/14/63

SUPERVISED BY

E. G. Helling
E. G. Helling

3/12/63

APPROVED BY

R. B. Edgar
R. B. Edgar

3/13/63

RELIABILITY
APPROVAL

(DATE)

AF 04(647)-289
CONTRACT NO.

5-78105-8640-68956

CHARGE NUMBER

2/22/63

VOL. 2 NO. T2-2548
SEC. 6 PAGE 1 OF 8

1.0

PHOTOGRAPHS

The following photographs show equipment used in the EDIT test.
The first photograph shows all the equipment connected as shown
in Figure 3.2.1.3-1.

14. PROGRAM GROUP CARD READER
AND ADAPTER - RMT TEST 1-17-65 2A131245

REVISED 2122163

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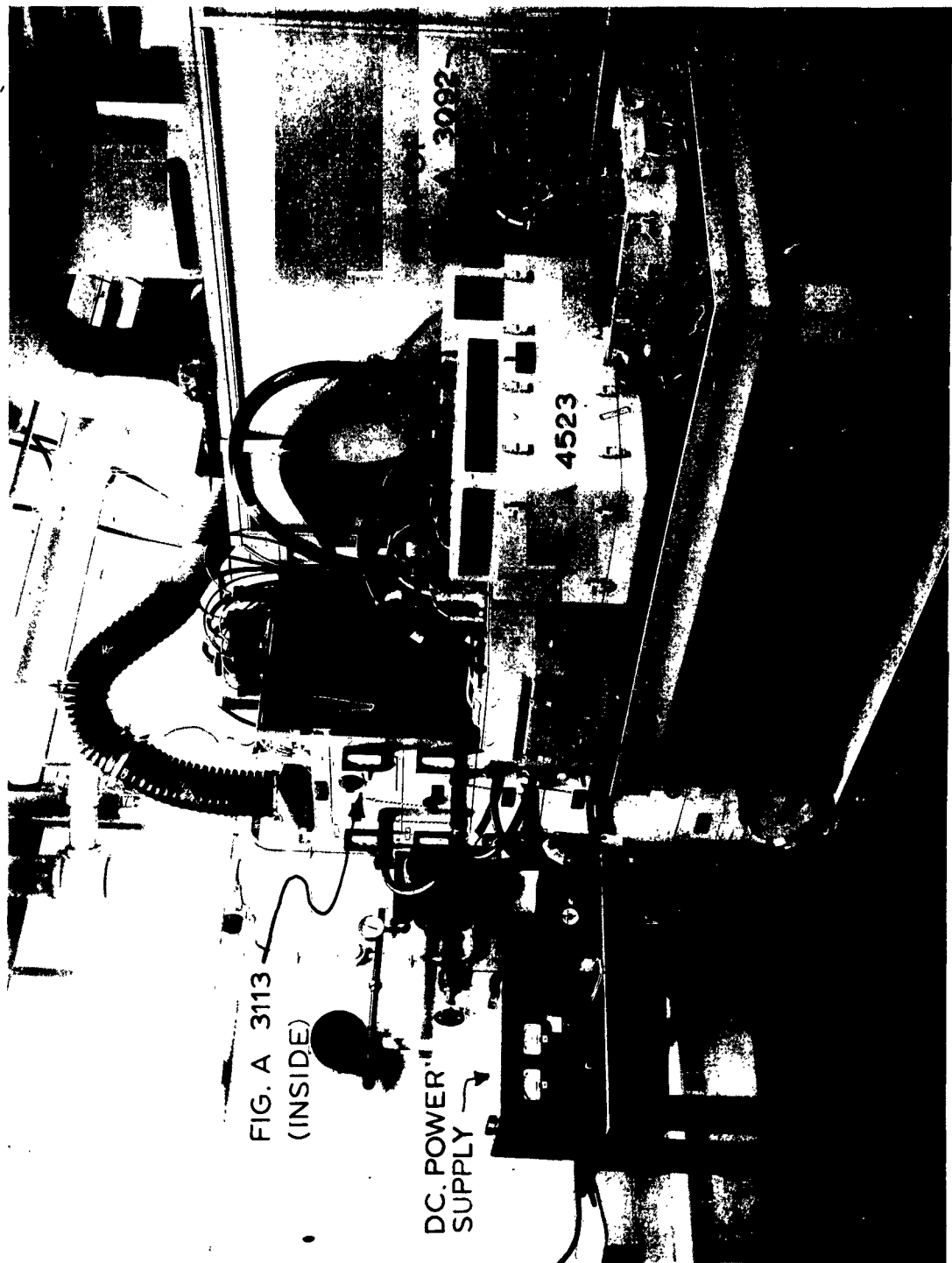


FIG. A 3113
(INSIDE)

DC. POWER
SUPPLY

BOEING

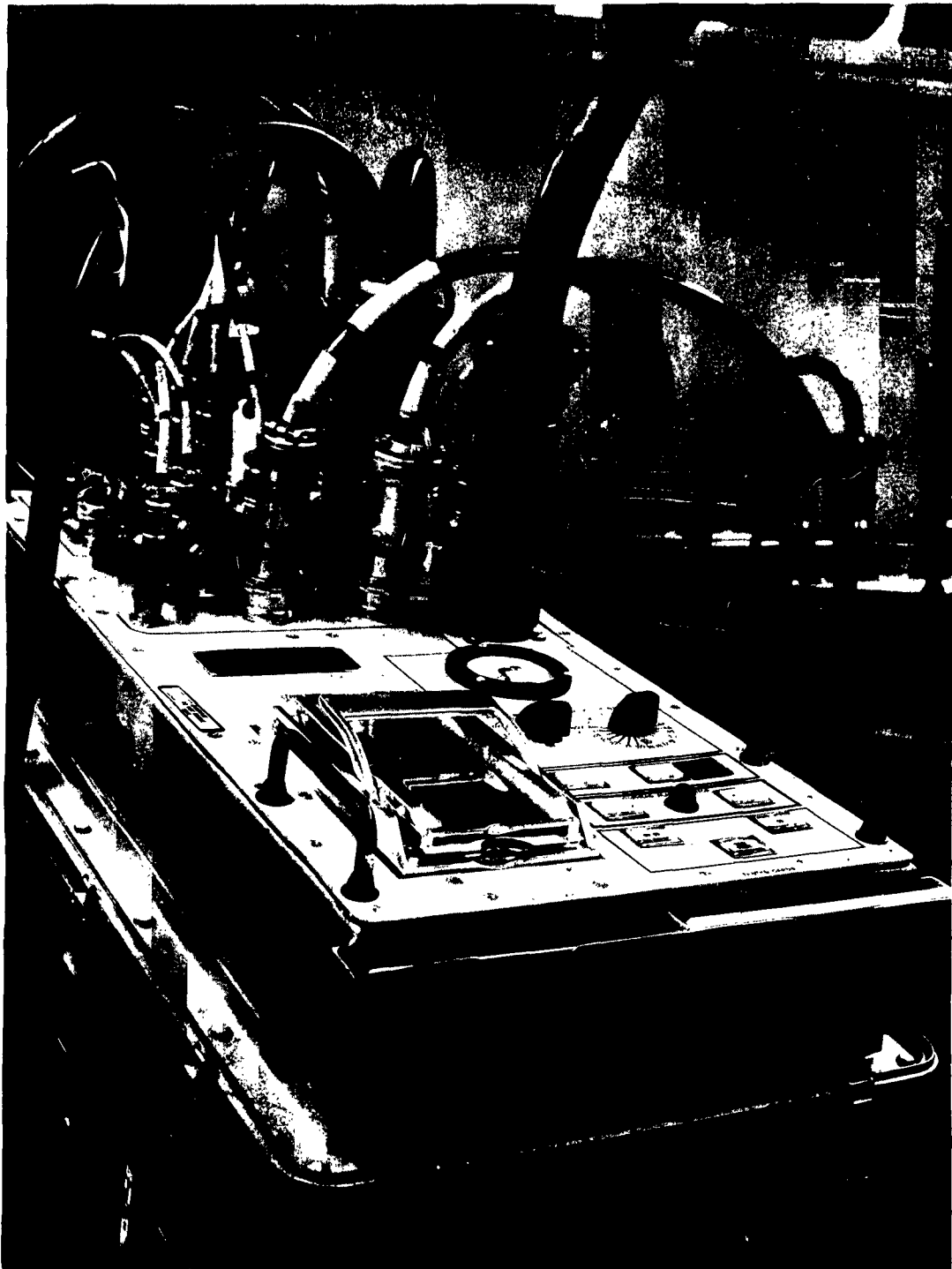
VOL. 2

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SEC. 6

PAGE 3

2A131212
 PROGRAMMER GROUP CARD READER
 AND ADAPTER - EXT TEST 1-17-69



PROGRAMMER GROUP TEST SET
 FIG. A 3092

REVISED 212263

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BOEING

VOL. 2

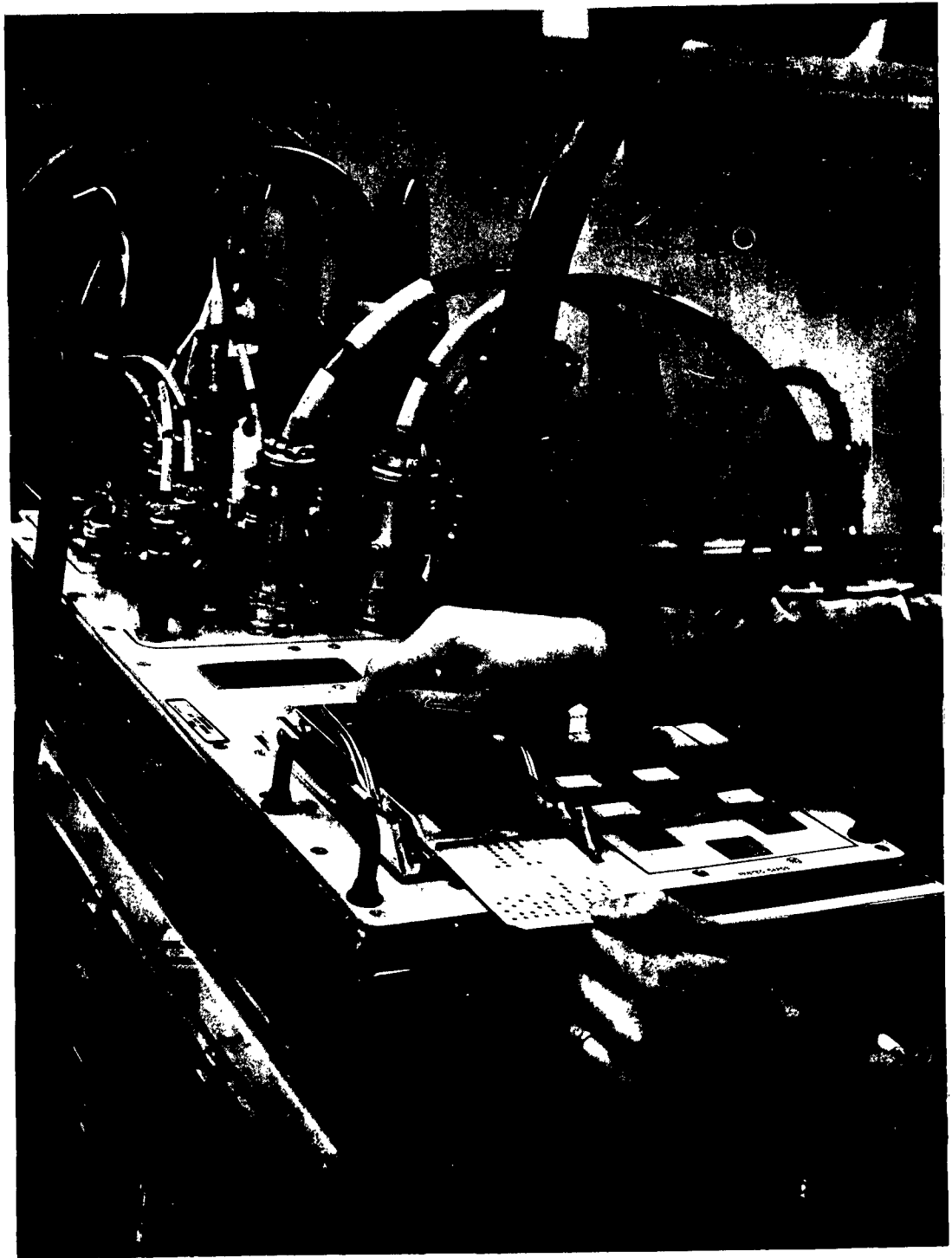
NO T2-2548

SEC. 6

PAGE 4



2A131244
M- PROGRAMMER GROUP CARD READER
AND ADAPTER - EXT. TEST 1-17-63



REMOVING CARD FROM CARD READER

FIG. A 3092

REVISED 212263

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BOEING

VOL. 2

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PAGE 5



NO. PROGRAMMER GROUP CARD MAKER 2A131243
AND ADAPTER - BDTT TEST 1-17-63



DISTRIBUTION BOX—PART OF
FIG. A 3092

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BOEING

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PAGE 6



16
10. PROGRAMMER GROUP CARD READER AND ADAPTER - BENT TEST 1-17-63 2A131240



POWER SUPPLY — FIG. A 4523

REVISED 2122163
U3 4288 2000

BOEING	VOL. 2	NOT 2-2548
	SEC. 6	PAGE 7

→

2A131241

164- PROGRAMMER GROUP CARD READER
AND ADAPTER - RENT TEST 1-17-63



DUMMY DECODER RELAY ASSEMBLY—
FIG. A 3113

REVISED 2/22/63
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BOEING

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